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SEED MERCHANTS

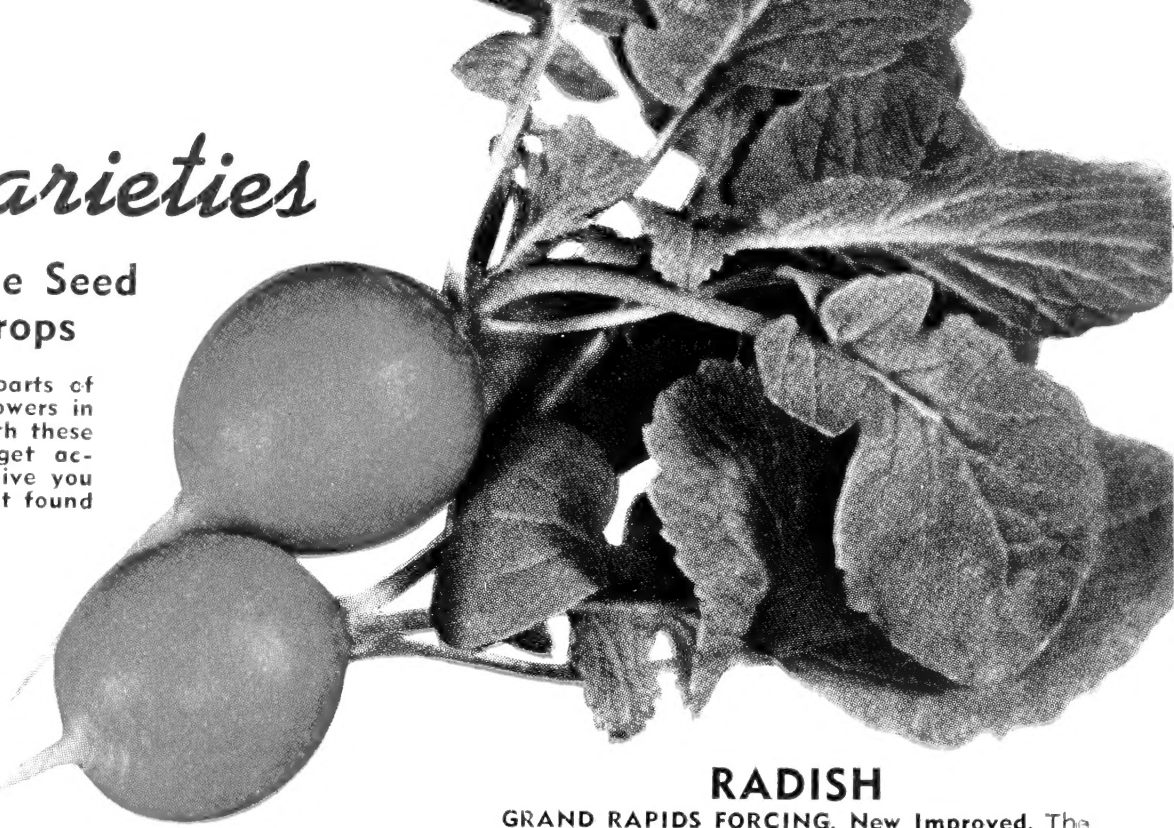
401-433 Ionia Ave., S. W.

GRAND RAPIDS, MICH.

Forcing Varieties

The Most Dependable Seed for Greenhouse Crops

THESE VARIETIES are used in all parts of the country by the best and largest growers in the business. If you are not familiar with these varieties, give us a trial order and get acquainted with their merits. Below we give you a partial description, with complete text found in the pages of this catalog. We have appreciated a nice business on our forcing varieties and an order from you will be filled the same day received.

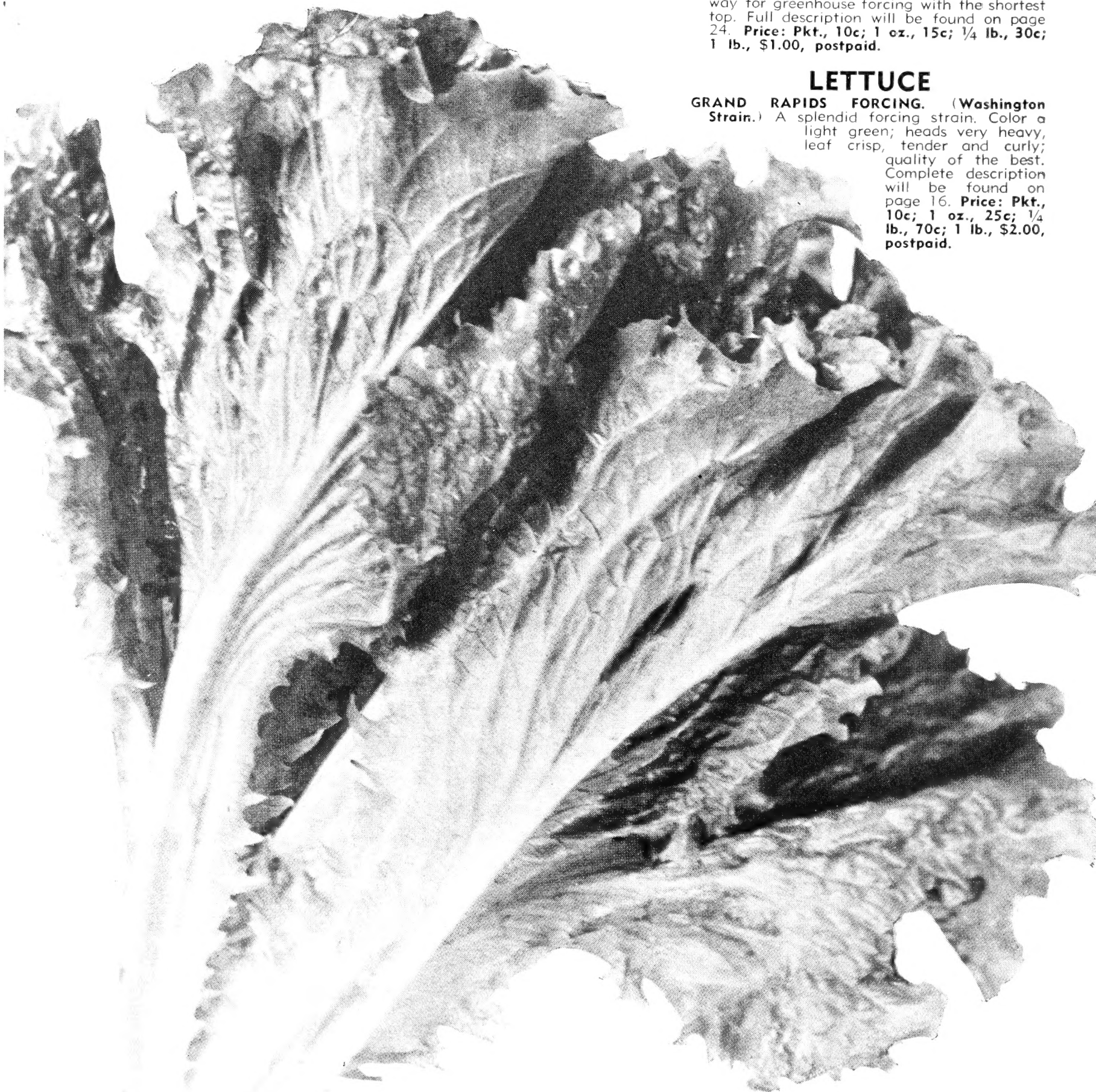


RADISH

GRAND RAPIDS FORCING. New Improved. The best greenhouse variety and the earliest of the Scarlet Globe type, and superior in every way for greenhouse forcing with the shortest top. Full description will be found on page 24. **Price:** Pkt., 10c; 1 oz., 15c; 1/4 lb., 30c; 1 lb., \$1.00, postpaid.

LETTUCE

GRAND RAPIDS FORCING. (Washington Strain.) A splendid forcing strain. Color a light green; heads very heavy, leaf crisp, tender and curly; quality of the best. Complete description will be found on page 16. **Price:** Pkt., 10c; 1 oz., 25c; 1/4 lb., 70c; 1 lb., \$2.00, postpaid.



PLEASE USE THIS ORDER SHEET

GRAND RAPIDS GROWERS, Inc.
Grand Rapids, Michigan

NAME Date 19

Post Office State

Street, P. O. Box
or Rural Delivery _____

Express or Freight Office (If Different from P. O.) Forward Goods by
(Parcel Post, Express, Freight or Boat)

CASH DISCOUNT

Money Order - - \$.....

Draft or Check - \$

Postage Stamps - \$

Cash - - - - - \$.....

If your order of VEGETABLE AND FLOWER SEEDS, except PEAS, BEANS or CORN, amounts to \$5.00 or more, we will allow you a 10% cash discount. This discount does not apply on bulbs, special offer collections, plants or any other item listed in this catalog, as these are NET CASH as quoted.

Michigan State Sales Tax is charged on all orders for home gardens, or wherever applicable.

Discount does not apply on Canadian orders, and must be re-mitted in U. S. funds.

More Order Blanks will be sent upon request. Always write letters on a separate sheet from your order.
Make Money Orders or Checks payable to Grand Rapids Growers, Inc.

All of our seeds are tested, and we guarantee the vitality and purity to the full amount of the purchase price, but even with our quality seeds, success in gardening and farming depends largely upon cultivation, soil and weather conditions, therefore, in no case can we be held liable for more than the amount actually paid for the seeds.

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IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

ORDER SHEET — Continued

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SPECIAL NOTICE: As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

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Grand Rapids Growers, Inc.

Thirty-first Annual Seed Catalog

1951

Important

By Carefully Following These Suggestions, Many Mistakes Will Be Avoided

Order Blanks

Order blanks have been inserted in this catalog for your convenience. Please use them. Fill in your NAME, POST OFFICE, SHIPPING POINT or nearest EXPRESS OFFICE, your COUNTY and STATE, as this is as important in the prompt filling of your order as the order itself. Write plainly and avoid mistakes. Additional order blanks are mailed with every order. If you do not receive them, please notify us, and we will be glad to furnish them.

Terms

We will ask that you send your remittance with your order. ON ALL ORDERS OF VEGETABLE AND FLOWER SEEDS except PEAS, BEANS and CORN, amounting to **\$5.00** or more, we will allow a 10% cash discount. This discount does not apply on bulbs, special offer collections, plants or any other item listed in this catalog, as these are NET CASH as quoted.

This offer is good only in the United States, and while we do not think there will be any serious changes, all prices quoted are subject to change without notice. Michigan State Sales Tax will be charged on orders for home gardens or wherever applicable.

How to Send Money

Remittance should be made by POSTAL MONEY ORDER, EXPRESS MONEY ORDER, BANK DRAFT or CERTIFIED CHECK. It is perfectly safe and your order will be assured of prompt handling. U. S. CURRENCY and U. S. POSTAGE STAMPS for small amounts are acceptable but in this case the letter should be REGISTERED.

Canadian Customers (Notice)

We are very thankful for the business you have given us in the past and we will continue to give you our very best of service and quality seeds.

Please take special notice that we cannot make C. O. D. shipments to any part of Canada and cannot pay postage on any items of seed in this catalog above the pound rate.

We also ask that you make your remittance in United States funds as the discount on Canadian paper is far in excess of where it was and will not permit us to honor same at face value. You can, however, obtain a bank draft or money order payable in U. S. funds and will ask that you consult your banker or postmaster. Personal checks or currency are not acceptable.

Limited Warranty

The Grand Rapids Growers, Inc., warrants to the extent of the purchase price that seeds or bulbs are as described on the container, within recognized tolerances. Seller gives no other or further warranty, express or implied.

Small Orders

Small orders are just as welcome as the larger ones and receive the same careful attention and prompt handling. All orders are filled the same day as received.

Large Quantities

Parties buying large quantities of any one variety of seed will be quoted special prices on application.

Price of Seeds By Weight

We will supply HALF POUNDS and over at the pound rate; less than half pound lots are charged at the quarter pound and ounce rate.

Safe Delivery

All seeds and supplies sent out by us are fully insured and we guarantee their safe arrival. If they are damaged, notify us immediately.

Postpaid Prices (Important)

We prepay postage on all vegetable and flower seeds in packets, ounces, quarter pounds, half pounds and pounds at the prices quoted herein to any point of the United States or any of its possessions, and Canada; however, we do not pay postage on Beans, Corn or Peas beyond the "one pound" price; field seeds, Onion sets, miscellaneous supplies, or anything that is not specifically listed "postpaid." If such items are wanted by parcel post, add sufficient postage as per Parcel Post rates given below, but in any case, any money that is sent us additional, would be refunded immediately when the order is filled, so be sure to include enough for postage.

Air Mail

On RUSH ORDERS received by air mail, wire or telephone for one ounce or more of seed, we will send by air mail if so requested at a normal charge of 6c per ounce of seed ordered, not exceeding 8 ounces, as the postal rate is 6c per each ounce. One ounce of seed would weigh more than one ounce when it is packed ready to mail. Where the mailing weight is less than one ounce we will pay the postage. On larger quantities the schedule is:

Zones 1 and 2		Per Pound Mailing Weight	Additional Pounds
3	.....	60c	48c
4	.....	60c	48c
5	.....	65c	50c
6	.....	70c	56c
7	.....	75c	64c
8	.....	75c	72c
	.....	80c	80c

This will give you overnight service to almost any point in the continental U. S.

Weight Limit

The weight limit is now 70 lbs. anywhere in the United States, and we advise sending seeds by mail as the service is good; however, on shipments of 20 lbs. and over it is cheaper to send by express, beyond the third zone.

Parcel Post Rates Jan. 1st, 1951

Subject to changes pending.

	Up to and		Over
	First lb. including or fraction	10 lbs.	
Local	10c	1.0c	0.75c
1st, within 50 miles	12c	2.1c	2.0c
2nd, within 150 miles	12c	2.1c	2.0c
3rd, within 300 miles	13c	3.0c	2.8c
4th, within 600 miles	14c	4.5c	4.25c
5th, within 1000 miles	15c	6.0c	5.50c
6th, within 1400 miles	16c	7.5c	7.25c
7th, within 1800 miles	17c	9.5c	9.25c
8th, Everything beyond	18c	11.5c	11.25c
CANADA all parts	14c for each pound		

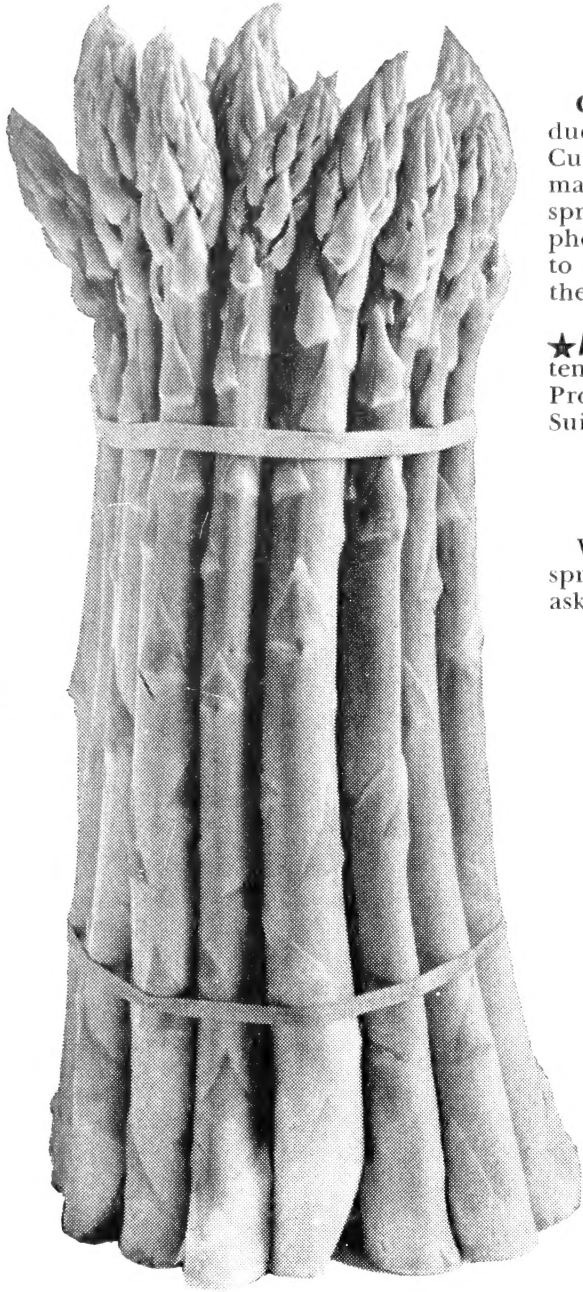
If in doubt obtain your zone rate from your postmaster.

Grand Rapids Growers, Inc.

Seed Merchants

Cor. Wealthy and Ionia Ave., S.W.
Phone: 97216

Grand Rapids, Mich.



Mary Washington Asparagus

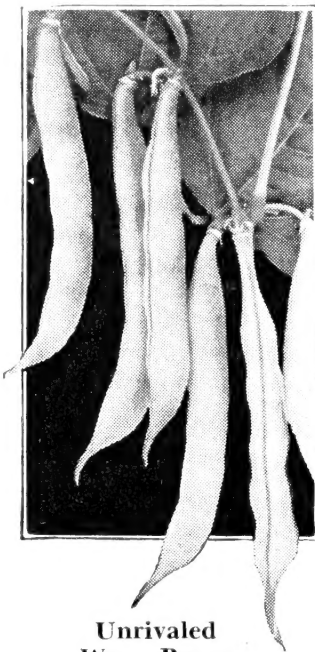
Asparagus

CULTURAL DIRECTIONS. One-half ounce of seed will sow 50 feet of drill and produce about 500 plants. Drill the seed in rows about 24 inches apart, covering seed 1 in. Cultivate well, keep free from weeds and they should be all right to transplant to permanent beds the following spring. An application of a good commercial fertilizer in the spring is recommended to avoid weed seed in barnyard manure and an application of phosphate and potash after the cutting period. Do not cut until third year, limit cutting to middle of June. Every fall before the seed is ripe, cut tops and burn them. Remember, the bed well planted will last for at least 20 years, treat it well.

★**MARY WASHINGTON RUST-RESISTANT ASPARAGUS.** The largest and most tender green Asparagus. This is a decided improvement due to the untiring efforts of Prof. J. B. Norton, member of the Plant Breeding Staff of the U. S. Dept. of Agriculture. Suitable for quick freezing. Pkt., 10c; oz., 25c; ¼ lb., 70c; lb., \$2.00, postpaid.

Asparagus Roots

We have the Palmetto and Mary Washington Rust-Resistant Asparagus roots, every spring, and as we handle only the very best 2-year roots, that are locally grown, we will ask that you write us for prices in whatever quantity you may want.

Unrivalled
Wax Beans

Beans

CULTURAL DIRECTIONS. One pound to 100 feet of drill; about three-fourths bushel per acre of Bush Beans. Beans thrive on a rich, warm, light soil. It is not safe to plant until about the middle of May, as the seed will rot in cold, wet ground, and plants will not stand frost. Plant dwarf Beans in rows 2 feet apart and from 4 to 6 inches apart in the row. Lima Beans should not be planted until June first, when the soil is thoroughly warmed through. Limas will rot in cold ground.

Wax Podded Varieties

CHEROKEE WAX. (Valentine Wax). 50 days. Developed from an original selection made by Dr. W. C. Barnes, of South Carolina. The plant is large and erect. Pods golden wax, measuring 6½ inches long, oval, nearly straight, stringless at all stages, tender and of good quality. The most prolific wax podded variety, equal in yield to the best green podded types. Seeds 80 per ounce. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

★**PENCIL POD BLACK WAX.** 52 days. Pods are round, very long, tender and entirely stringless. Extremely productive. Best market gardeners sort. Suitable for quick freezing. 1 lb., 40c postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

GOLDEN WAX. (Top Notch). 52 days. An excellent early home garden variety. Pods clear golden yellow, broad, flat-oval, fleshy, brittle and stringless. Suitable for quick freezing. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

★**UNRIVALED WAX BEANS.** 53 days. Small plant, very early and great yielder. Pods about 5½ inches long, somewhat curved, semi-flat, fleshy and very tender and stringless. Color pale yellow. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

ROUND POD KIDNEY WAX. 58 days. Most generally used as a wax Bean for canning and commercial freezing. Stringless, nearly fibre free, pods make an ideal pack for cut or whole Beans. Color light yellow. 6 inches long. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

KENTUCKY WONDER WAX. 67 days. Unsurpassed for a wax podded variety. A very heavy producer. Vine 4 to 5 feet tall, good climber, very productive. Pods 7 to 7½ inches long, light golden yellow, thick-flat to oval, good quality. Almost stringless, brittle, tender and fleshy. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.



Pencil Pod Black Wax

★This variety recommended by Michigan State College

Green Podded Varieties

LANDRETH STRINGLESS GREEN POD. 53 days. An improvement of Burpee's Stringless Green Pod. Vine is more erect, with darker foliage and a longer, slimmer pod. Pods 6 to 8 inches long, slightly curved, meaty, and absolutely stringless. Undoubtedly the best round-podded Bean on the market today. Very prolific and an ideal variety for home garden, market gardeners and canners. Suitable for quick freezing. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

★**TENDERGREEN.** 54 days. A new introduction, and now one of the most popular green Beans. Hardy; dependable cropper, medium large, dark green and stringless. Suitable for quick freezing. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

TOP CROP. 48 days. A new important addition to the Tendergreen class. Early and productive, stringless, resistant to common Bean Mosaic, medium green, pods 6 inches long by $\frac{3}{8}$ -in. wide, round. Excellent for shipping, market as well as canning and freezing. 1 lb., 60c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs., \$12.50; 50 lbs., \$24.00.

GIANT STRINGLESS GREEN POD. 53 days. Similar to Landreth Stringless but pods are a little longer, straighter and more slender, more depressed between Beans and slightly lighter in color; early, hardy and of highest quality. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

BOUNTIFUL. 48 days. Best of the flat-podded varieties. Pods $6\frac{1}{2}$ -7 inches long, thick, flat and slightly curved. Stringless and of fine quality; color light green. Suitable for quick freezing. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

BLACK VALENTINE. 52 days. A round-podded, stringless shipping and market variety. Pods 6 to $6\frac{1}{2}$ inches long, dark green, slightly curled. Suitable for quick freezing. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.



Landreth Stringless Green Pod



REFUGEE OR 1000 TO 1. 70 days. A very productive, hardy, vigorous late sort. Pods 5 to $5\frac{1}{2}$ inches long, somewhat slender, round and slightly curved, almost stringless and of good quality; color light green. Suitable for quick freezing. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

☛ **KENTUCKY WONDER OR OLD HOMESTEAD.** 65 days. The most popular green-podded, climbing Bean; early and productive. Pods 8 to 9 inches long, very slender. Suitable for quick freezing. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

DUTCH CASE KNIFE. (Snijboonen). 65 days. Pole Bean. Green snap pods, 7 to 8 inches long, straight, flat, brittle, of good quality; best as a shell Bean. Beans very flat, ivory-white. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

Lima Beans Pole Variety

KING OF THE GARDEN LIMA. 88 days. An improved strain, vigorous, midseason, productive. Pods 5 to 6 inches long, very flat and wide and uniformly four-seeded. 1 lb., 50c; postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

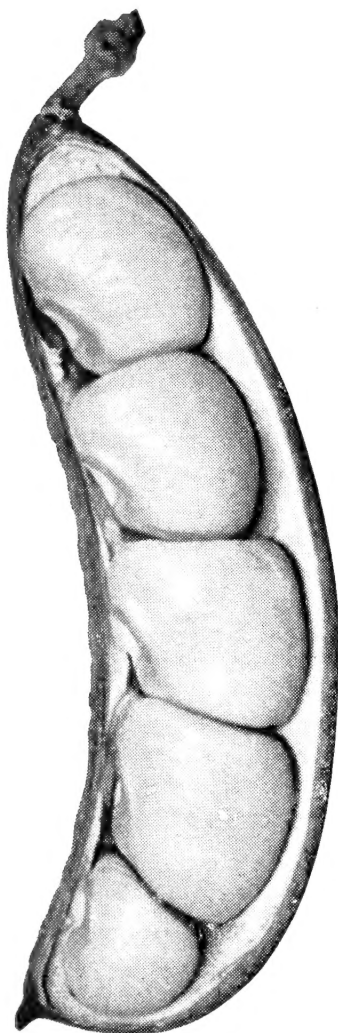
Dwarf or Bush Varieties

BURPEE'S IMPROVED BUSH LIMA. 75 days. Both Beans and pods are larger than the old type. The pods measure 5 to 6 inches long by $1\frac{1}{4}$ inches wide and are of a luscious flavor. They are frequently borne in clusters of from 5 to 8 pods. Suitable for quick freezing. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

★**FORDHOOK BUSH LIMA NO. 242.** U. S. D. A. 75 days. A most excellent variety and exceedingly popular with market gardeners. Pods are about 5 inches long, containing 4 to 5 large, oval-shaped, very thick, white Beans. Suitable for quick freezing. 1 lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

★**HENDERSON BUSH LIMA.** Thorogreen Green Cotyledon. (Baby Lima.) 65 days. A vigorous, hardy, very early and small type of Bush Lima. Pods small, about 3 inches long, containing 3 to 4 small, flat, white Beans. Suitable for quick freezing. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75; 50 lbs., \$15.00.

Due to present rates of postage, and pending increases, please bear in mind that anything that is quoted "Not Postpaid" means that the postage will be extra and in the case of 10 lbs. of Beans, the mailing weight would be at least 12 or 13 lbs. on which the rates in force at time of ordering would prevail. But in any case, any money that is sent us additional, would be refunded immediately, when the order is filled, so be sure to include enough for postage. Present Parcel Post rates on page 3.



Burpee's Improved Bush Lima

★This variety recommended by Michigan State College

Beets

CULTURAL DIRECTIONS. One ounce to 50 feet of drill; 6 to 8 pounds per acre. Beets prefer a well-prepared friable soil planted from $\frac{1}{2}$ inch to $\frac{3}{4}$ inch deep, according to the texture of soil. For an early crop sow in drills 1 foot apart. Sow as early as the ground can be worked in the spring. When plants are large enough to use as greens, thin to 3 inches apart in the row. Beets can be sown as late as July for main crop. Hen manure is recommended as a fertilizer in the rows; care being used that the seed does not come in immediate contact with the fertilizer.

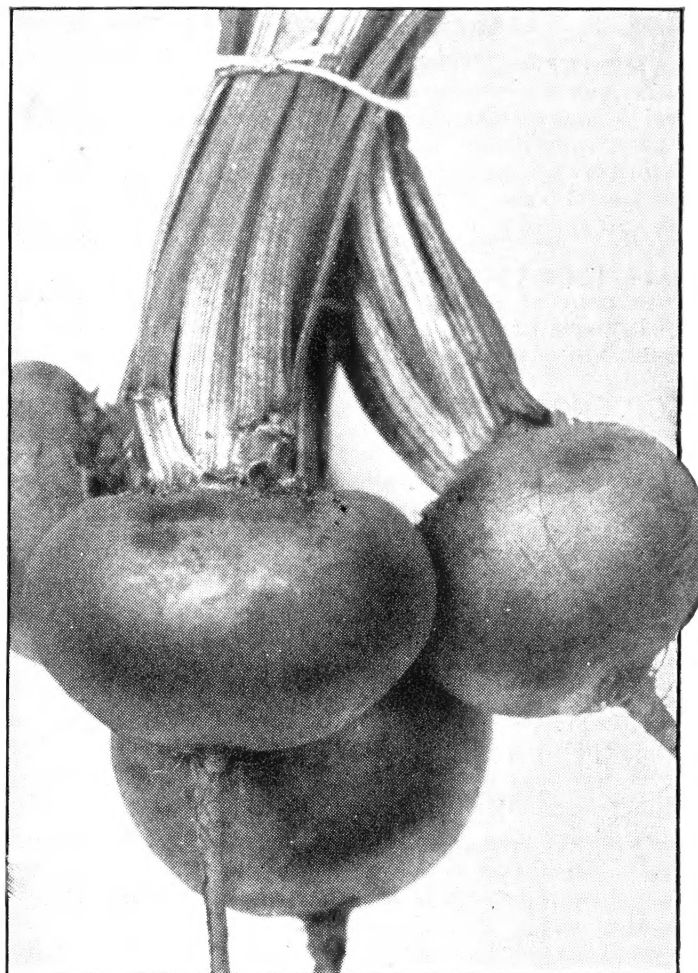
★**EARLY WONDER.** 55 days. An early variety. It is Turnip-shaped and is always smooth. The flesh is a beautiful deep red color and is of excellent quality. Tops are small and erect. Exceptionally good for early bunching. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25, postpaid.

★**DETROIT DARK RED.** (Morse's Strain.) 55 days. The best for market gardens or home use. Roots smooth, medium size, globe-shaped; skin dark red; flesh solid vermilion-red. Tops small, upright, dark green, shaded red. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25, postpaid.

CROSBY'S EGYPTIAN. 58 days. Where an early market sort is desired, our strain is unequalled. Roots a flattened globe shape, skin very dark red, flesh a trifle lighter, tops small. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25.

EARLY BLOOD TURNIP, IMPROVED. 60 days. Old standard table Beets. Roots nearly round or slightly flattened, bright red, zoned and of good quality. Not so early as Detroit, but with a larger, coarser top. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25, postpaid.

GREEN TOP BUNCHING. 60 days. Early, extremely attractive bunching Beet. Tops medium sized and erect. Foliage clean, grayish green that does not turn red or brown in the fall. Roots round, smooth and glossy, flesh bright blood-red. Mostly grown for Beet greens. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25, postpaid.

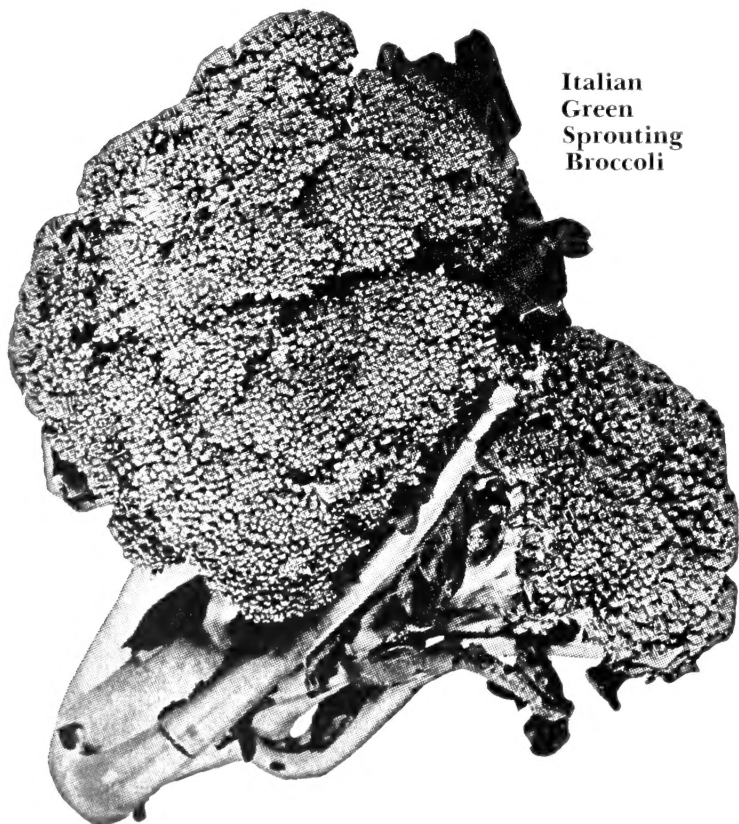


Detroit Dark Red (Morse's Strain)

Sugar Beet

Sugar Beets and Mangels are of great value for stock feeding, because of the improved health and condition of the animals, increased flow and quality of milk, and because of the saving in fodder. The yield is enormous, and the cost of growing is trifling. Grow a patch of them for winter feed. They are also excellent for poultry.

GIANT FEEDING SUGAR. 120-150 days. A most valuable, large yielding variety for feeding; half sugar, oval-shaped, skin rose colored, flesh white, very nutritious and easily harvested. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 40c; 1 lb., \$1.25.



Italian
Green
Sprouting
Broccoli

Mangel or Stock Beets

CULTURAL DIRECTIONS. One ounce to fifty feet of drill, five pounds per acre. Sow early in the spring, in rows about two feet apart; cover seed one and one-half inches deep, pressing ground firmly over the seed. When plants are three inches high thin to about eight inches apart in the row. The plants pulled may be used for greens.

MAMMOTH LONG RED. 120-150 days. A favorite with the dairyman and farmer. Large, well-formed; dark red color, very nutritious; a big cropper. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00, postpaid.

GOLDEN TANKARD. (Yellow Eckendorf). 120-150 days. Very productive and sweet; tops and neck very small; flesh yellow; especially relished by cows and sheep. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 35c; 1 lb., \$1.00, postpaid.

★**"SWISS CHARD"** is listed on page 8.

Broccoli

A frequent application of nitrate of soda can be of great value to promote the life of this crop.

ITALIAN GREEN SPROUTING. 75 days. This variety produces a large head, like Cauliflower, consisting of a compact cluster of bluish green flowers. When the central head is removed, the plant produces many branches, each bearing small heads. These are cut with 3 or 4 inches of the branch attached and tied in bunches for market. The stems as well as the flower heads are cooked and served as Cauliflower. Suitable for quick freezing. Pkt., 10c; oz., 25c; $\frac{1}{4}$ lb., 85c; 1 lb., \$2.50, postpaid.

Cabbage

CULTURAL DIRECTIONS. Three ounces of seed will plant an acre of early and five ounces an acre of late Cabbage. For early Cabbage sow in hotbeds in January or February. Transplant as early as possible to the open ground about two feet apart each way. For late Cabbage, sow in open ground in May and transplant about July first in rows 2½ feet each way.

In fertilizing, we recommend hen manure at the rate of one handful to three feet in the furrow. Care must be used so that the roots do not come in direct contact with the manure.

Early Varieties

★**GOLDEN ACRE.** 64 days. Heads round, very hard. Matures two to three weeks earlier than Copenhagen Market, but is otherwise quite similar. Owing to earliness and remarkable uniformity, will prove the most profitable early Cabbage for market gardeners. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

EARLY JERSEY WAKEFIELD. 62 days. Market gardeners in general consider this the best early variety. Conical heads are uniform in shape, very solid. Our stock is dwarf, compact and extremely early. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

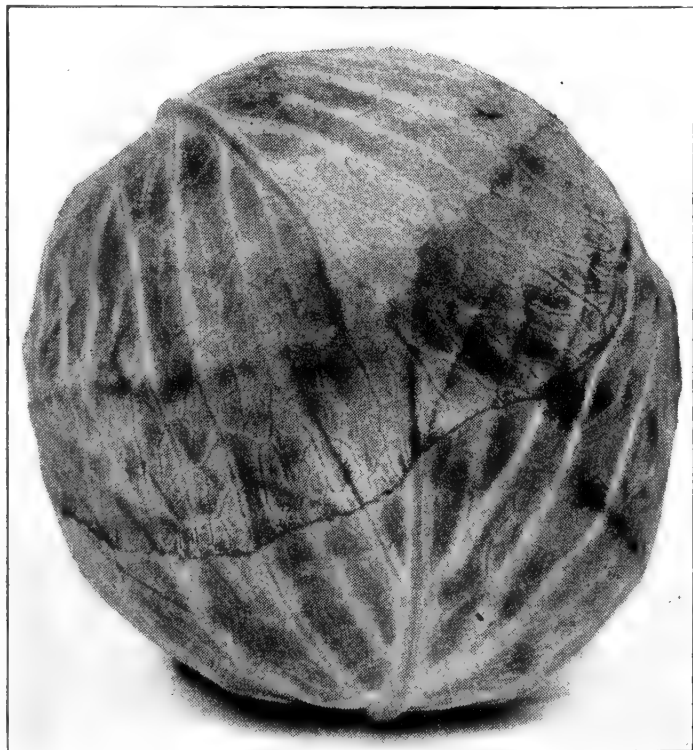
IMPROVED COPENHAGEN MARKET. 65 days. Nearly as early as Jersey Wakefield. Stems short, heads large, round and solid, few outer leaves. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

GREEN ACRE. 66 days. A comparatively new strain with the general characteristics of Golden Acre, but holds its green color longer, an added value to market gardeners and shippers. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

Late Varieties

FERRY'S HOLLANDER. 100 days. Decidedly the best variety of late Cabbage. Heads become firm while still rather small. They reach good marketable size in 90 to 100 days, but continue to enlarge, maturing in about 120 days. Plants medium small, allowing closer planting, short stem, erect and compact. Extremely hardy, splendid quality and keeps perfectly in storage until late spring. Decidedly the best variety for muck growing. Pkt., 10c; oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

★**PENN STATE BALLHEAD.** 100 days. A heavy yielding strain of the short stem Danish Ballhead type. Originated by Pennsylvania State College. Yields as high as 26 tons per acre have been recorded. Pkt. 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.



Danish Ballhead



Golden Acre Cabbage

FERRY'S ROUND DUTCH. 71 days. Splendid for home and market garden. Plants small and compact; stem short. Heads almost ball-shaped; commonly 7 to 8 inches in diameter, 6 inches deep, and weigh 4½ to 5 lbs.; firm and of fair quality. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

★**DANISH BALLHEAD.** 95 days. Short-stemmed, heads round, very solid and heavy. Splendid keepers, hardy, and the best winter sort. Not recommended for muck growing. Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

PREMIUM FLAT DUTCH. 105 days. Highly valued for its fine quality. Heads very solid, broad, round, flattened on top, fine grained and tender. Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

AMERICAN SAVOY. (Chieftain). 85 days. Large, flattish heads, very curly and hard. One of the best Savoy types. Pkt., 10c; oz., 30c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

MAMMOTH ROCK RED. 90 days. Heads solid, of good size and quality. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

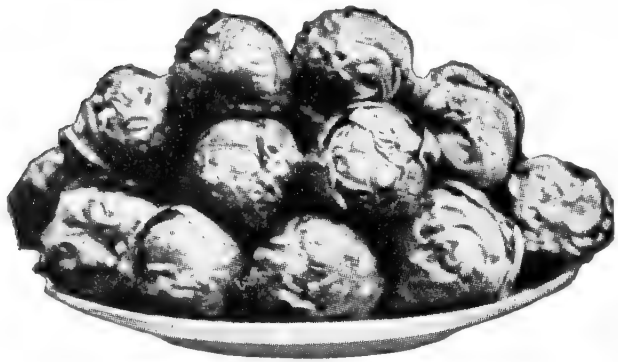
RED STONEHEAD. 80 days. An exceptionally good variety forming round heads, smooth, hard, of a glowing red color. A good keeper. Pkt., 10c; oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

Yellows-Disease Resistant Varieties

★**YELLOWS-RESISTANT GOLDEN ACRE.** 62 days. This strain can be grown successfully on soil infested with yellows. Can be cut just as early as the standard variety, and has a similar yield. But under abnormal conditions and backward weather, it has a tendency to bolt readily and the regular strain is recommended. Pkt., 10c; oz., 35c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

★**WISCONSIN HOLLANDER NO. 8.** (Yellows-resistant). 90-100 days. A heavy yielding late storage type, highly resistant to yellows. Round head, and yields greater tonnage than ordinary strains. Pkt., 10c; oz., 45c; ¼ lb., \$1.35, 1 lb., \$4.00, postpaid.

★**MARION MARKET.** 75 days. A yellows-resistant strain of Copenhagen Market. Round head and crisp tenderness of the parent Cabbage. Principally adapted on yellows infested soils where non-resistant strains fail completely. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.



Brussels Sprouts

Brussels Sprouts

The culture is the same as for Cabbage which it resembles, the edible part being the small heads, an inch or two in diameter that form at each leaf joint all the way up the stalk. The leaves should be broken off in the fall to give more room for the little heads to grow. Delicious and more tender than any Cabbage. 90 days. Suitable for quick freezing. Half-dwarf. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.50, postpaid.

You have bought them on the market in the little quart boxes. Why not grow your own? It will be an effort worth while for you to have them in your own garden.

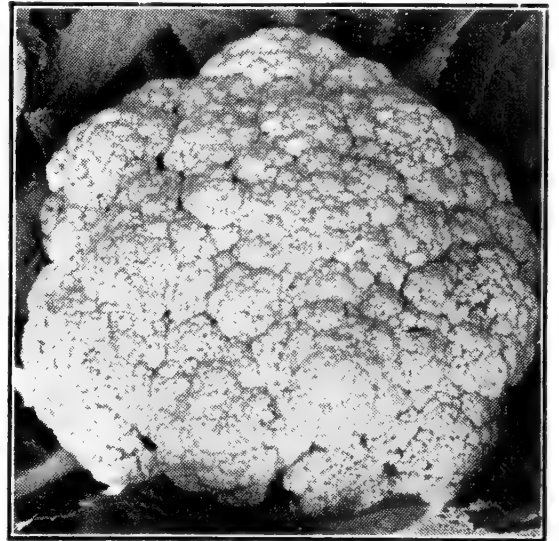
Cauliflower

CULTURAL DIRECTIONS. One ounce of seed will produce 4000 plants. Five ounces of seed to an acre. Directions about the same as Cabbage, except planting in rows about 3 feet apart and 18 inches apart in the row. When plants begin to head, tie leaves up around the heads to protect from the sun.

EARLY SELECT SNOWBALL. 52 days. A very fine strain producing a magnificent head of snowy whiteness. Head is very compact, even and fine grained. The outer leaves are erect, tending to protect the young head from the hot sun. Selected for evenness in heading, enabling you to market the entire field in rapid succession. Suitable for quick freezing. Pkt., 10c; 1 oz., \$1.75; ¼ lb., \$5.00; 1 lb., \$15.00.

★GROWERS SPECIAL IMPROVED. 60 days. Medium sized heads, snowy white in color, evenly grained and compact. The very best variety of the Snowball type. Suitable for quick freezing. Pkt., 10c; 1 oz., \$1.75; ¼ lb., \$5.00; 1 lb., \$15.00, postpaid.

HELIOS. Original. Snow-white solid heads with uniform, tall, upstanding protecting foliage. Is unsurpassed for cutting during the last period of summer. Pkt., 10c; 1 oz., \$2.85; ¼ lb., \$8.50; 1 lb., \$25.00.



Early Select Snowball Cauliflower

SELANDIA. Early type, though a little later than Stella Nova, the Early Snowball. Has large, broad, robust foliage which affords good protection for the large, solid white heads. Suitable for quick freezing. Pkt., 10c; 1 oz., \$2.85; ¼ lb., \$8.50; 1 lb., \$25.00, postpaid.

Celery Cabbage

CULTURAL DIRECTIONS. One ounce will produce 2000 plants. Do not sow seed till the last of May, earlier sowing generally going to seed instead of making heads. Seed may be sown in seed beds and transplanted in rows three feet apart and about fifteen inches apart in the row, or may be sown in rows and thinned.

MICHIHLI. 70 days. A new strain of Celery Cabbage. In habit of plant it resembles Chihili, but the growth is more vigorous. The leaves are dark green and do not have the yellowish cast of Chihili. The leaf margins are waved and the individual plants are very uniform. It is surer heading, and in trial plantings made on a commercial scale it has produced 99% marketable heads. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

CHIHILI. 70 days. Imported from Holland. This is the true strain. It has a delicate flavor, much milder than Cabbage. The heads are long, about 16 inches, rather slim, coming to a point at the top. Color is very dark bluish green, with the inner leaves and stalks blanched to a beautiful snow-white. This past season it proved its place and is highly recommended as a true strain. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50; postpaid.



Celery Cabbage

Swiss Chard

CULTURAL DIRECTIONS. One ounce to fifty feet of drill; five pounds per acre. Sow early in the spring, in rows eighteen inches apart and thin to one foot apart. The plants are of very rank growth, and will continue to grow and produce all summer, and if given a little protection during the winter, will produce early greens in the spring.

LUCULLUS. 55 days. Leaves large and curly. Plant grows about 2 feet high, midribs are very broad and are a good substitute for Asparagus during the summer months. Pkt., 10c; oz., 15c; ¼ lb., 45c; 1 lb., \$1.35, postpaid.

NEW RHUBARB. A Chard of unique crimson color. Stalks sweet and succulent. Bright red in color; leaves green to bronze, heavily veined with red. Plants are vigorous and will yield a tremendous crop throughout the summer and fall, until frost. Pkt., 10c; 1 oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.



Swiss Chard

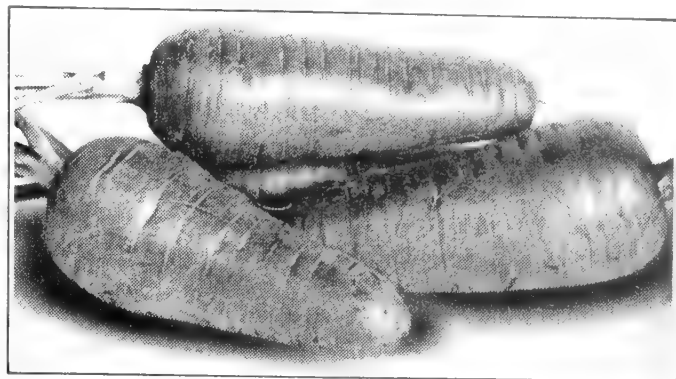
Carrots

CULTURAL DIRECTIONS. Carrots require about the same simple care as Beets; they have no serious insect enemies, and they are rarely attacked by disease. It is best to plant them in soil that is friable and richly fertilized. Plant the seed one-half inch deep in loose, well-prepared soil, making rows 16 to 24 inches apart. Cultivate as soon as the plants are well established and thin to 2 or 4 inches in row, according to size of the variety. Plantings may be made from early spring until mid-June. For winter storage the later date is advisable.

★**NANTES CORELESS, STRONG TOP.** 68 days. A very superior Carrot. It is coreless, brittle, fine grained and of fine, mild, sweet flavor. The color is reddish orange and the skin is smooth. It is 6 inches long, cylindrical, and very stump-rooted. Suitable for quick freezing. Pkt., 10c; 1 oz., 20c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

SUPREME HALF LONG. 75 days. Resembles a small refined Danvers with short tops. Roots 6 to 7 inches long, about 2 inches in diameter at shoulder, tapering to a half stump. Exterior smooth and of excellent color. Interior flesh tender, sweet and of fine flavor. Core small and the same dark red as the rest of the flesh. Pkt., 10c; 1 oz., 20c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

IMPERATOR. 77 days. Smooth and attractive in appearance, 7 to 8 inches long, with rounded shoulder and medium tapered roots. And the deep orange color of the exterior extends throughout the core and inside flesh, making it a Carrot of exceptionally fine flavor and quality. Used extensively for bunching. Pkt., 10c; 1 oz., 20c; ¼ lb., 60c, 1 lb., \$1.75, postpaid.



Supreme Half Long Carrots

★**STREAMLINER.** 77 days. An ideal new bunching Carrot for shippers and market gardeners. Tops short, rather sparse, dark green and strong. Roots long, slender, nearly cylindrical, 8 to 10 inches long, and they grow completely underground. Pkt., 10c; 1 oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

★**CHANTENAY, RED-CORED.** 70 days. This is a distinct improvement over the well known standard Chantenay, especially in color, texture and quality of flesh. Roots 5½ to 6 inches long, 2¼ inches thick at the shoulder; tapered stump root. Flesh and core reddish orange, fine grained and tender. A favorite with canners, market gardeners and shippers. Suitable for quick freezing. Pkt., 10c; 1 oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

CHANTENAY, LONG TYPE. 70 days. A strain of Chantenay bred especially for growing on soils where the moisture table is high. Tops are shorter than the regular Chantenay. Roots definitely longer but fully as large; stump rooted at maturity. Texture and color equal to Red-Cored Chantenay. Suitable for bunching or bushel use. Suitable for quick freezing. Pkt., 10c; 1 oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

TOUCHON. 68 days. A quality Carrot for home and market garden. Tops medium height and strong. Roots orange-scarlet, 6½-7½ inches long; 1¼-1½ inches thick; straight, cylindrical, strictly stump-rooted. Flesh deep orange with inconspicuous core. Similar to Nantes but preferred by some for greater length and stronger top. Suitable for quick freezing. Pkt., 10c; oz., 20c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

★**MORSE'S BUNCHING.** 77 days. Tops short; foliage rather coarsely cut and stems medium size and strong. Roots at maturity are 1¼ to 1½ by 8 inches in size, almost cylindrical with rounded shoulders, and are well stumped. Pkt., 10c; 1 oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

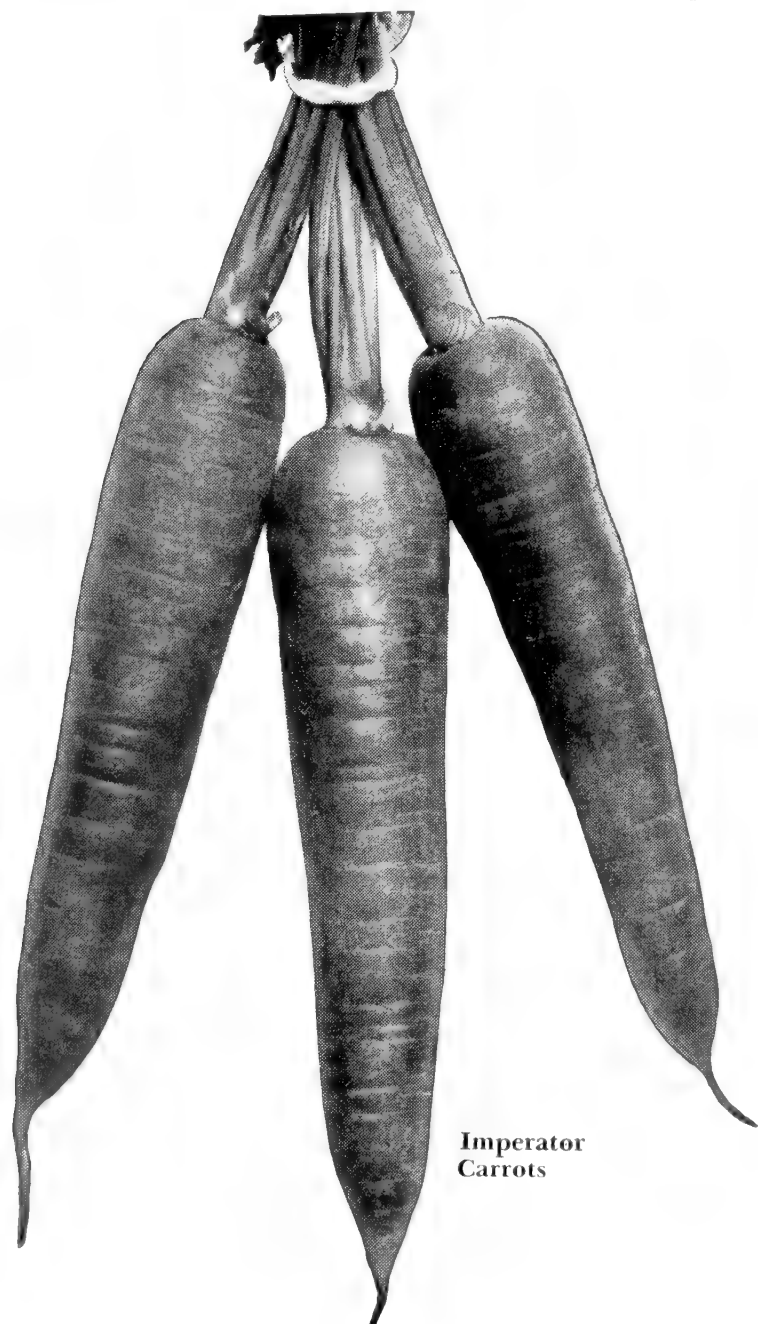
LONG ORANGE. 85 days. Good variety for deep sandy soil. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

SCARLET HORN. 60 days. A small, early stump-rooted variety of good flavor and quite coreless. The roots will average about 3 inches long. Pkt., 10c; oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

OXHEART or GUERANDE. 72 days. Very short, thick and stubby. Very desirable for heavy clay soil, as it is easily harvested. Pkt., 10c; 1 oz., 25c; ¼ lb., 75c; 1 lb., \$2.25, postpaid.

WHITE BELGIAN. 95 days. Large, white stock Carrot. Pkt., 10c; 1 oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

YELLOW BELGIAN. 95 days. Grows one-third out of the ground. Very large, long yellow stock Carrot. Pkt., 10c; 1 oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.



Emperor Carrots

SPECIAL GROWERS RECOMMENDATIONS

Our cultural directions are the special recommendation of our growers who through actual experience know what is necessary for the successful growing of a crop, and give it to you for your guidance.

Celery

Yellows-Resistant Varieties

MICHIGAN GOLDEN



YELLOWS-RESISTANT SELF-BLANCHING CELERY

An improved strain of the original Michigan Golden variety bred by plant pathologists of Michigan State College for resistance to Fusarium yellows and introduced by Grand Rapids Growers' Inc.

**GENUINE MICHIGAN GOLDEN SEED IS SOLD ONLY IN
PACKETS BEARING THE SEAL OF MICHIGAN
STATE COLLEGE**

Michigan Golden is highly resistant to Fusarium yellows, also known as root rot, crown rot, stunt or sickness. It is not resistant to other celery diseases and seed treatment together with the use of protective dusts or sprays must be relied upon to control leaf blights.

In any inquiry concerning this seed inclose this label and address your communication to

**MICHIGAN STATE COLLEGE
DEPARTMENT OF BOTANY AND PLANT PATHOLOGY
EAST LANSING, MICHIGAN**

No warranty, expressed or implied, is given as to description, productiveness or purity of this seed and we can not be in any way responsible for the crop. If the purchaser does not accept these terms the seed should be returned immediately and money will be refunded.

G

Serial No.

Michigan Golden

Michigan State College Fusarium Yellows-Resistant Original Michigan State College seed is sold only in packets bearing this label and the seal of the College. No other seed is genuine. Beware of bulk seed of this variety.

We strongly recommend Michigan Golden for planting in soils where Fusarium Yellows or root rot attacks other varieties of yellow Celery. We specially recommend it for the summer and late crops. No one variety is adapted for use on all soils and for all climatic conditions. Michigan Golden is especially adapted for Michigan conditions but is widely and successfully grown in other sections of the country where root rot is also a destructive disease.

Michigan Golden was developed by plant pathologists of Michigan State College and the breeding work is continuing under their supervision. All genuine Michigan Golden seed is grown under their control, packeted at the college and sold only in the original seed containers.

Prices: 1 oz., \$1.75; 2 ozs., \$3.50; ¼ lb., \$5.50; 1 lb., \$22.00, postpaid.

Michigan State Greengold

**Fusarium Yellows-
Resistant Celery**

A new light green, hybrid Celery produced by plant pathologists at Michigan State College. It was bred by crossing the Downing strain of Fordhook with Michigan Golden and combines the resistance of Michigan Golden to Fusarium yellows with the quality of Fordhook. Greengold was produced for Michigan conditions and is suitable for either a summer or autumn variety. It is intermediate in quality between the yellow varieties which are too stringy and most of the so-called Pascal types which are too brittle and break easily on handling. It is a lightly ribbed variety, very erect growing and the stalks average 8-10 inches to the first joint. Planting distance should be 5-6 inches and when well grown the plants will average 2-3 pounds trimmed for packing in crates, such as the Howard crate shown in the illustration. Greengold matures in approximately 90 days from field setting as a summer variety and the stalks blanch naturally without boards or paper



Michigan State Greengold Celery

to a light green color with the hearts a contrasting cream. Greengold is not resistant to leaf blights and must be dusted or sprayed for protection against these diseases. It is highly resistant to root rot or Fusarium yellows, displaying resistance equal to Michigan Golden.

Prices: ½ oz., \$1.25; 1 oz., \$2.00; ¼ lb., \$7.50; ½ lb., \$15.00; 1 lb., \$30.00, postpaid.

Celery • Yellows-Resistant Varieties

CORNELL NO. 19. 100 days. We offer the true strain of this excellent variety. It has been developed by Cornell University by crossing Golden Self Blanching and Pascal. 10½-11 inches to joint with an over-all length of 24 to 25 inches. Hearts long and comparatively full. Stems thick, rounded and of smooth texture. Combines the good qualities of the Pascal type and is highly resistant to fusarium yellows. Oz., \$1.35; ¼ lb., \$4.75; 1 lb., \$18.00, postpaid.

NEW TALL GOLDEN. (Yellows Resistant). About 24 inches tall, compact, with ribs of good length, approximately 10 inches to the first joint. The stems are rounded and of medium thickness. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

NEW GOLDEN PLUME. (Yellows Resistant). Plants are tall, normally 26 inches in height, full hearted and upright

in habit of growth. Its thick meaty stems are approximately 8 inches to the first joint. May be used as a yellows resistant substitute for either Wonderful or Golden Plume No. 4162. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

CORNELL NO. 6. 100 days. Similar in general characteristics to Cornell No. 19, but comparing, the plants are shorter in height, are stockier and of somewhat more open formation, petioles shorter, stems thicker and less ribbed. Has a good heart formation and is highly resistant to Fusarium yellows. Oz., \$1.35; ¼ lb., \$4.75; 1 lb., \$18.00, postpaid.

JERSEY GOLDEN PLUME. Taller type. It is an excellent variety for early planting, showing some resistance to soil diseases. On account of the great care taken in selecting and roguing we know there is none better. The ribs are from 7 to 8 inches to the first joint, according to growing conditions and the height is about 26 to 28 inches. Oz., \$1.75; ¼ lb., \$6.50; 1 lb., \$24.00, postpaid.

Celery

CULTURAL DIRECTIONS. One ounce will produce from 5,000 to 10,000 plants two ounces per acre. Muck soil is best for Celery, but good Celery may be grown on rich, loamy soil if water can be applied freely. Celery needs manure and fertilizer, but as muck soils are usually well supplied with an abundance of nitrogenous matter, a fertilizer high in phosphate and potash usually gives the best results.

Yellow Varieties

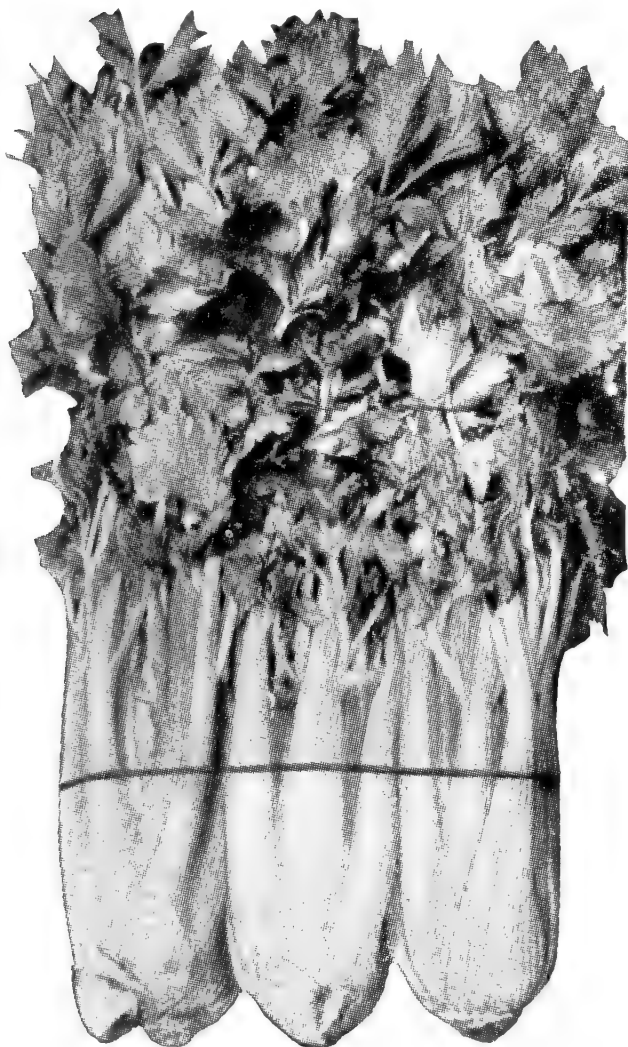
NEW GOLDEN SELF BLANCHING. 85 days. This is the celebrated "Vilmorin" French strain and has been imported direct from France. It has a long stalk and is commonly called "TALL STRAIN." Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

NEW GOLDEN SELF BLANCHING. 85 days. American grown. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

GOLDEN PLUME NO. 4162. (New strain.) Our improved strain fills the need for a taller, long-stemmed Golden Plume. Retains earliness and ease of blanching of the original strain, but is more compact in form, straighter, and much better adapted to the standard crate. Normally 24 to 26 inches tall, with stems 7½ to 8½ inches and a full heart. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

GROWERS WONDERFUL. 80 days. A valuable early variety similar to the Golden Plume. The plants are semi-dwarf, very vigorous and have a full heart which bleaches quickly to a golden yellow color. Excellent for market gardeners. Oz., \$1.00; ¼ lb., \$3.50; 1 lb., \$12.00, postpaid.

TALL NON-BOLTING GOLDEN PLUME. This is a strain that grows taller and faster than the original types. Its ability to withstand low temperatures without bolting make it the most satisfactory of the Golden Plume strains for growing under certain unfavorable conditions. 8½ to 9 inches to joint; 26 to 27 inches over-all height. Oz., \$1.35; ¼ lb., \$4.75; 1 lb., \$18.00, postpaid.



Jersey Golden Plume Celery
See page 10

Celery Seed For Flavoring

It makes an interesting addition to French dressing. It's delicious too, in a Roquefort cheese dressing for green salads. Oz., 15c; ¼ lb., 45c; 1 lb., \$1.25, postpaid.



New Golden Self Blanching

Supplies For Celery Growers

Krop-Saver C-1 Dust. This fungicide is a new material containing an insoluble copper with light weight talc as a carrier. No water or moisture required to make it active. Can be dusted on Celery when the leaves are dry. Lends plant stimulation through copper being absorbed through the leaf surface. Many Celery growers are using this new dust and getting improved Celery yields.

Celery Bleaching Paper. "Farmrite" is really what the Celery grower wants. It is constructed of two sheets of heavy, first quality kraft paper combined with a waterproof, light-excluding cement of asphaltum and is heavily re-inforced with strong cords to resist tearing. Comes in 10-inch wide rolls by 310 feet long and 12-inch wide rolls by 310 feet long.

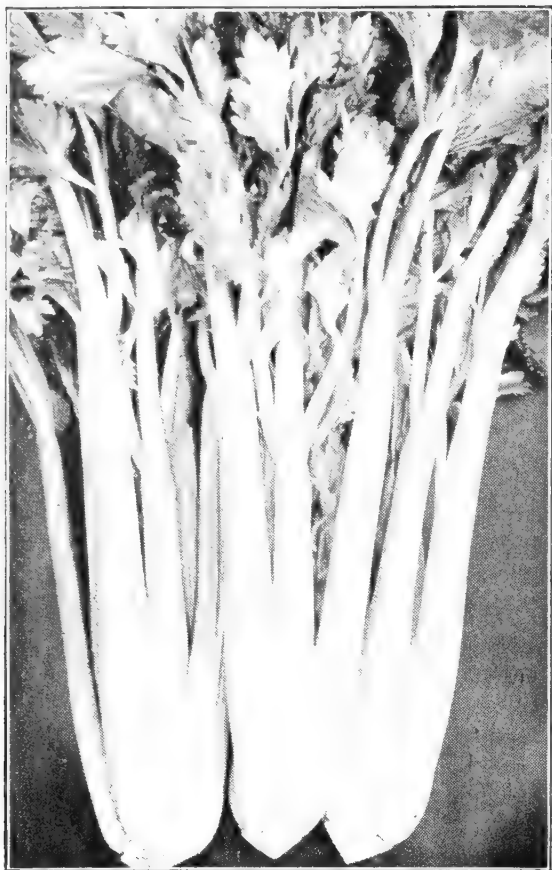
Celery Tape, 17 and 21 strand. **Celery Braids,** 13, 17, 21, and 25 strand. **Hard twist,** 4-ply and 6-ply. **Sea Island,** 2-ply hard twist. **Soft twist,** 8-ply.

The above are all red in color.

Prices quoted upon application, and we would appreciate an opportunity to quote you on your requirements.

Choice Market Garden Varieties

Green Varieties



Paragon

★**GROWERS EARLIGREEN.** The finest, earliest green Celery we know. Vigorous and large; Compact in habit of growth. Plant is surprisingly large for an early sort. The outer leaves are green and the very full heart is pure white, brittle and of most delicious flavor. In our trials this proved to be an outstanding variety in all details. It is the best green Celery on the market today, and should be in heavy demand this year. Oz., \$2.00; ¼ lb., \$7.00; 1 lb., \$25.00, postpaid.

PARAGON. A Celery of exceptional merit. The plant is dwarf, vigorous, quite hardy, and has a very full heart. Stalks broad, quite thick, very solid, crisp and tender, bleaching readily to a golden yellow color. Highly recommended for an early or late crop. Oz., \$2.25; ¼ lb., \$7.50, 1 lb., \$26.00, postpaid.

Pascal and Utah Strains

GROWERS PASCAL No. 49. An entirely new strain of this increasingly popular type of Celery. Grown and developed by one of the most expert seed producers in the country. May be grown for early crop, if it is transplanted in the field after all danger of frost has passed. It is 22 to 26 inches tall, 8 to 10-inch joint, stalky, compact and straight in habit of growth. Stems broad-ribbed but smooth, indicating its fine, brittle texture and excellent nutty flavor. May be bleached to light greenish yellow or shipped from row as any other green Pascal. Oz., \$2.00; ¼ lb., \$7.00; 1 lb., \$25.00, postpaid.

IMPROVED CALIFORNIA PASCAL. (New Strain). 120 days. This is a green type summer Pascal Celery which bleaches readily. The heart stalks grow tall and full. The entire stalk is of excellent eating quality, being tender with a delicious nutty flavor. The thick rounded stalks are smooth, not ribbed and free from strings. Height 24 inches with 10 to 12 inches to the first joint. May be used for either early, medium or late crop. Oz., \$2.25; ¼ lb., \$7.50; 1 lb., \$26.00, postpaid.

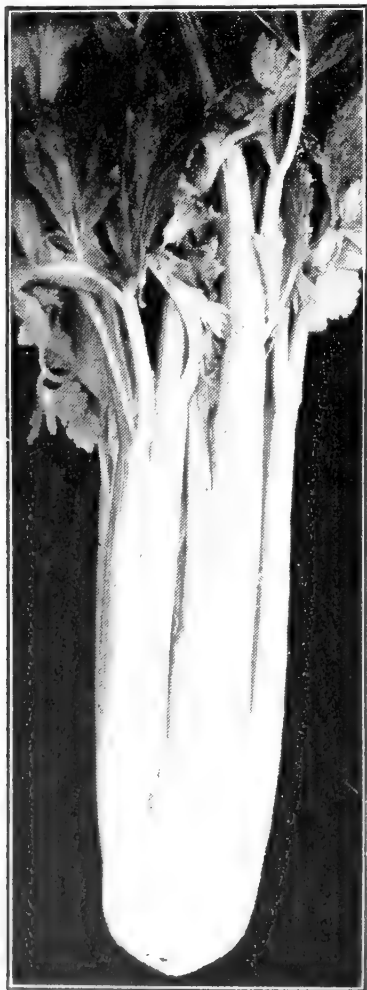
CALIFORNIA PASCAL.

A green midseason Celery. Easy to blanch. Height 26 to 28 inches, stems 9 to 10 inches long. Very heavy, rounded with narrow channel, slightly tapered. Stems numerous, forming a compact head. This is the strain that is proving successful in many of the larger markets. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

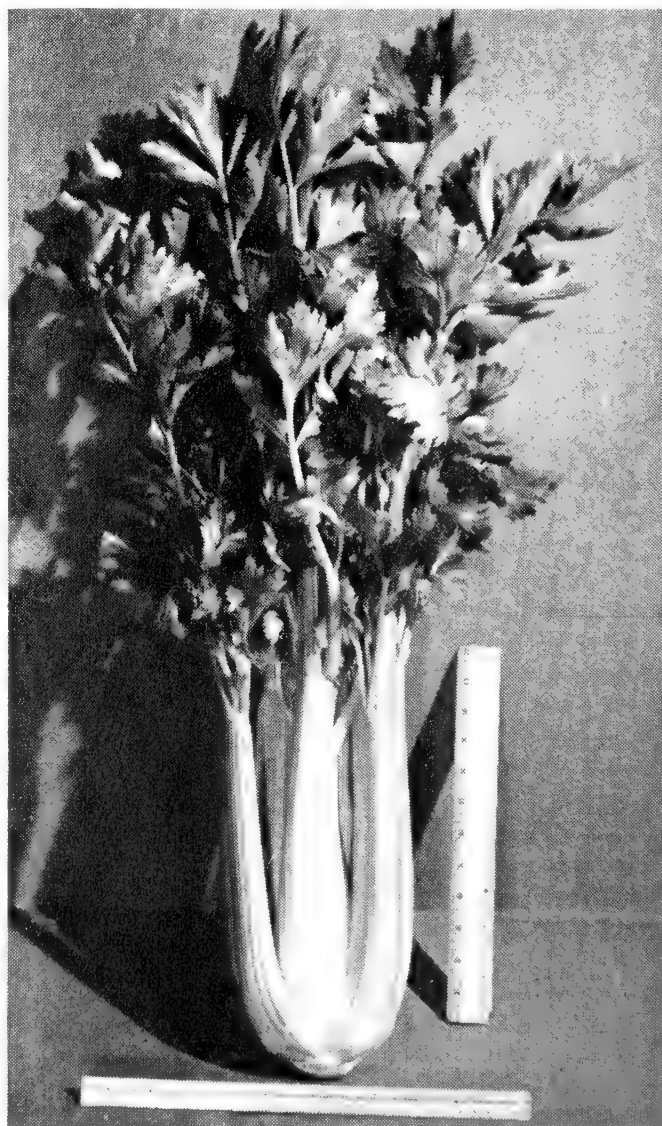
UTAH No. 15. A strain of Utah of midseason maturity. Plants are large, height 26 to 28 inches. Leaves are dark green, deeply cut, moderately broad. Plants are erect, compact, full hearted. The edible stem is usually 8 to 10 inches, of medium width, thick, rounded, quite smooth, crisp and of fine quality. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

SUPERIOR PASCAL. A new strain of the Pascal family. We suggest a trial of this new variety to growers of Pascal Celery. Oz., \$1.50; ¼ lb., \$5.50; 1 lb., \$20.00, postpaid.

CELERIAC. Large Smooth Prague. 110 days. Turnip rooted Celery. Pkt., 10c; oz., 90c; ¼ lb., \$2.70; 1 lb., \$8.00.



Earligreen



Growers Pascal No. 49

★This variety recommended by Michigan State College

Sweet Corn

CULTURAL DIRECTIONS. One pint for 100 hills; about six quarts per acre. Early Corn is planted in rows 2½ to 3 feet apart, and about 8 inches apart in the row, in May, and will be ready for table eight or nine weeks from date of planting. Later varieties should be planted from the 15th of May to the 15th of June. Plant in hills 3 to 4 feet apart. It will be ready for use in from 10 to 12 weeks from date of planting.

Open - Pollinated

GOLDEN EARLY MARKET. 72 days. Earliest of the golden varieties and better than the Gill's Early Golden. Ears medium, 8 to 12-rowed, of about the same size as Improved Bantam, with stalks 3½ feet tall, medium tender, sweet and of good flavor. A popular and prolific variety for home and market garden. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

GOLDEN ROCKET. (67 days.) Plant 5 to 6 ft. tall, foliage sparse and dark green, few suckers. Ear is 7 to 7½ inches long x 1¾ inches diameter, 10 to 12 rows, medium yellow, kernels fairly deep and medium wide. Unusually fine quality, for such an early Corn. Lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

★**GOLDEN "SUNSHINE."** 74 days. A valuable yellow variety for the market grower or the private gardener. It is a cross between the Golden Bantam and Gill's Early Market and combines the earliness and large size of ear of the Gill's Early Market with much of the high quality of the Golden Bantam. It is ready for market a week to 10 days earlier than Golden Bantam, and has a much larger ear, the ears averaging 8½ inches long, with 12 to 14 rows. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

★**GOLDEN BANTAM.** 79 days. Hardy, early maturing, very dwarf. Cob is small but fills out nicely with large, deep cream-colored kernels, which turn yellow when ripe. No home gardens should be without this excellent Corn. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

IMPROVED GOLDEN BANTAM. 85 days. Superior to the original Golden Bantam in quality, and has larger ear. It matures about the same time. Nearly all ears carry 12 rows of deep, rich, golden yellow kernels, set close upon the cob. It is a favorite with the market gardener. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

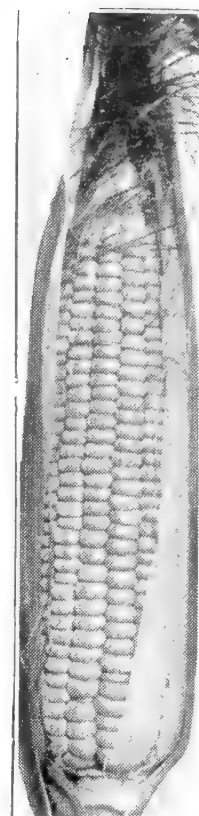
GOLDEN EVERGREEN. 95 days. This new variety combines all the good qualities of Golden Bantam and Stowell's Evergreen. Has the bright golden color and tender kernels of Golden Bantam and the flavor and sweetness of Stowell's Evergreen. Ears much larger than Bantam, not quite as large as Evergreen, but much earlier. Stalks are full leaved and usually bear two well-developed ears. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

★**STOWELL'S EVERGREEN.** 90 days. Most popular late Sweet Corn. More extensively planted than any other sort, being the general favorite with market gardeners. Ears of good size, grain deep; tender and sugary. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

COUNTRY GENTLEMAN. (White or Shoe Peg Corn). 90 days. An especially fine quality Corn; without row formation. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

EARLY EVERGREEN. 90 days. Has all the merits of the Stowell's Evergreen. This is a white Corn. It is a splendid variety for the market gardener. Lb., 35c, postpaid. Not postpaid, 10 lbs., \$3.00; 25 lbs., \$6.50; 50 lbs., \$12.50.

BLACK MEXICAN. 83 days. Reputed to be the sweetest and most delicious of all table Corn. Color is white when young, changing to bluish black in later stages. 1 lb., 35c, postpaid.



Hybrids

A hybrid is the first generation of a cross between strains of different parentage and involving one or more inbred lines of Corn or their combinations.

GOLD RUSH. 67 days. This is the one. A first early yellow hybrid for the early market with the strong hybrid vigor and productiveness. Stalks 6 ft. tall. Ears 8½ inches, 12 to 14 rowed, slightly tapered, well filled to the tip. Most attractive yellow; tight husk. Tender, sweet and of fine quality and flavor. Lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

SPANCROSS C13.3. (70 days). One of the best early hybrids. Highly resistant to bacterial wilt. Well tipped, small ears of 10 to 12 rows. Kernels golden yellow, sweet and tender. Lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

MARCCROSS C13x6. 72 days. This has proved a very good early market and home garden variety. Stalks are short but sturdy, highly resistant to Stewart's disease. Ears long, plump, abruptly tapered at the tips, 10 to 14-rowed with light cream-yellow, medium broad kernels of good quality. Lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

GOLDEN CROSS BANTAM. 85 days. Excellent for market gardens and well adapted for canners' use. Highly resistant to Stewart's disease and very prolific. Stalks sturdy, with exceptionally broad, dark green leaves. Ears 10 to 14-rowed, slightly lighter yellow than Golden Bantam. Kernels medium in width and depth. Suitable for quick freezing. Lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

IOANA HYBRID. (All-America Selection.) 87 days. A mid-season yellow hybrid, highly resistant to both drought and wilt. Plants tall and sturdy with broad, numerous leaves. Ears 7½ to 8 inches long, 12 to 14 rows, cylindrical, well filled with medium narrow light yellow kernels. An attractive and productive variety for either gardener or canner. Suitable for quick freezing. Lb., 50c, postpaid. Not postpaid, 10 lbs., \$4.50; 25 lbs., \$10.50; 50 lbs., \$20.00.

Pop Corn

AUSTRALIAN HULLESS HYBRID. Dwarf growing; heavy yielder of attractive ears; peculiar form, being nearly as thick as long. Color pearly white. Entirely hullless, making it the tenderest of any Pop Corn when popped. 1 lb., 65c, postpaid. Not postpaid, 5 lbs., \$3.00.

MINNHYBRID No. 250. Developed by the Minnesota Experiment Station from Japanese Hullless over which it showed a marked improvement in yield equivalent to about

15% more per acre with 25 to 30% greater expansion of popping which gives increased tenderness, kernels are white. 1 lb., 65c, postpaid. Not postpaid, 5 lbs., \$3.00.

SOUTH AMERICAN YELLOW. 110 days. Sunburst. Better adapted for Michigan climate. It matures about 2 weeks earlier than the true type South American yellow. Amber color, large size when popped, having a butter-colored tint. 1 lb., 40c; postpaid. Not postpaid, 5 lbs., \$1.75.

Due to present rates of postage, and pending increases, please bear in mind that anything that is quoted "Not Postpaid" means that the postage will be extra, and in the case of 10 lbs. of Sweet Corn, the mailing weight would be at least 12 or 13 lbs., on which the rates in force at time of ordering would prevail, but in any case, any money that is sent us additional, would be refunded immediately when the order is filled, so be sure to include enough for postage. Parcel Post rates are given on page 3.

Table and Pickling Cucumbers



CULTURAL DIRECTIONS. One ounce of seed to 50 hills; 2 pounds per acre. Cucumbers should not be planted until the ground is warm, about June 1st. For pickles, they may be planted as late as July 1st. They require a warm, rich, sandy soil. Plant in hills about 4 feet apart and about 8 seeds to the hill. When all danger from insects is past, thin to 3 or 4 of the strongest plants.

Cucumber Beetle—No. 10 Pyrocid Dust is the control measure to keep your Cucumbers clean. Apply promptly and grow your Cucumbers without any trouble. Circular free on request.

GROWERS EARLY DARK GREEN. 70 days. Selected from Cubit variety. A comparatively new variety of special merit, because of its excellent shape and dark green color. Fruits white spined, cylindrical and hold their color to a larger size than most other varieties. Fruits 7½ to 8 inches long, 1⅞ inches in diameter. Shy seeder. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

ACE HI. 65 days. White spine variety, 9 to 11 inches long, round at ends; dark green with trace of light green around blossom scar, small seed cavity, crisp flesh. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

STAYS GREEN. (Black Diamond). 60 days. Splendid for shipping. A rich dark green, 8 to 9 inches long, slightly tapered, full at both ends. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

IMPROVED LONG GREEN. 68 days. A standard late, well-known table sort. 12 to 14 inches long, slender, more or less warted, tapering towards the stem end, color dark green, flesh white and firm. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

WHITE SPINE. (Improved.) 58 days. A very fine, early strain. Fruit very rich, dark green, symmetrical, thick and nearly square ended, vigorous and productive. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

★**IMPROVED "A & C."** 68 days. The vigorous growing, disease-resistant vines produce an abundance of uniform, exceedingly dark green Cucumbers, averaging 10 inches long. The fruits are of uniform diameter from stem to blossom end, are rather slim, averaging 1¼ to 1½ inches in diameter, without any bulge in the center, and with practically no taper at the ends. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

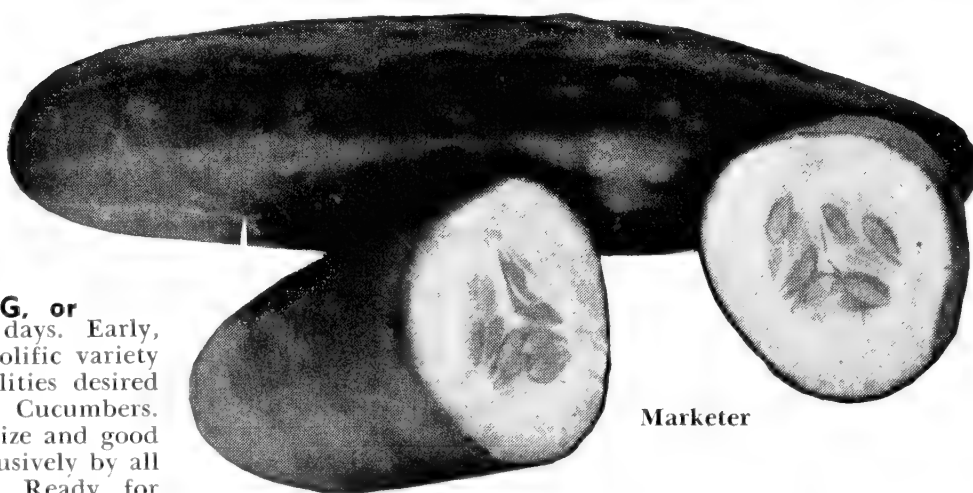


CHICAGO PICKLING, or WESTERFIELD'S. 58 days. Early, heavy yield. A very prolific variety combining all the qualities desired by those who raise Cucumbers. Fruits are of uniform size and good color. Used almost exclusively by all large pickling houses. Ready for market in 58 days. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

STRAIGHT-8. 62 days. This outstanding variety produces symmetrical cylindrical fruits about 8 inches in length, and about 1½ inches in diameter. The fruits are well rounded at the ends. This is an ideal shipping variety. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

LONGFELLOW CUCUMBER. 72 days. An excellent long, slender, dark green variety, equally desirable for greenhouse forcing or outdoor culture. 12 to 14 inches long by 2½ inches in diameter. Fairly early, a good healthy grower; very productive. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

DAVIS' PERFECT. 58 days. Is one of the most prolific sorts. The fruit is long, slim and holds its color till nearly ripe. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.



MARKETER. 70 days. A variety of recent introduction, producing very dark green cylindrical fruits which taper slightly at the ends. Fruits 7½ to 8 inches long, 2¼ inches in diameter. White spined. Vines vigorous and prolific. Its uniform shape and attractive color make it an excellent market variety. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.



Eggplant

CULTURAL DIRECTIONS. One ounce to 1000 plants. Seed germinates very slowly and requires warm ground. Start in hotbeds in March, transplant about June 1st, in rows about three feet apart and two feet apart in the row. Eggplant requires a rich soil, free from disease and rotation of crop is recommended.

BLACK BEAUTY. 80 days. Early and productive. Fruit large and of rich, glossy black color. Pkt., 10c; oz., 75c; ¼ lb., \$2.25; 1 lb., \$6.50, postpaid.

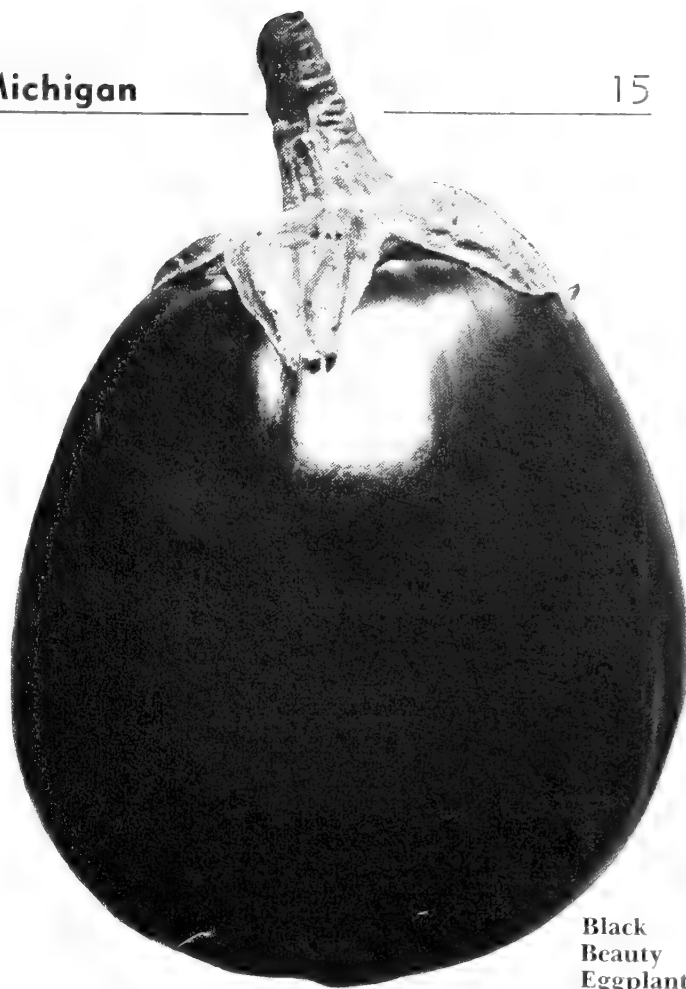
NEW YORK PURPLE. 80 days. A favorite market variety. Fruits larger than the Black Beauty. The plant is large, spreading and spineless, producing 4 to 6 large, oval fruits of dark purple color. Pkt., 10c; oz., 75c; ¼ lb., \$2.25; 1 lb., \$6.50, postpaid.

Kale or Borecole

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Sow from August 15th to October in rows 18 inches apart, and they will yield greens during fall and winter. They are improved by freezing.

DWARF CURLED SCOTCH. 110 days. A handsome, very finely curled, dwarf spreading variety, foliage long and attractive bright green; very hardy. Pkt., 10c; oz., 20c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

TALL CURLED SCOTCH. 110 days. Plants of this variety grow 2 to 3 feet in height, bearing long plumelike light green leaves, which are very much cut and deeply curled at the edges. Very hardy. Pkt., 10c; oz., 20c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.



Black
Beauty
Eggplant

Endive

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Sow in rows about 15 inches apart and thin to one foot apart in the row. Sow seed for fall crop in June or July. When nearly full grown, tie outer leaves together bringing them up over the head for blanching. A well balanced fertilizer is recommended.

LONG GREEN CURLED or MOSS CURLED. 95 days. The most hardy and vigorous sort, has very curly leaves, the mid-rib being white. After blanching, the leaves make a delicious and appetizing salad. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BROAD-LEAVED BATAVIAN. (Escarolle). 90 days. One of the best varieties for salads; leaves of upright growth, broad, more or less twisted and waved, bright deep green, with a nearly white mid-rib. Inner leaves form a fair head which blanches a creamy white. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

Collards

TRUE GEORGIA. 75 days. Plant 2 to 3 ft. high forming a cluster of tender, undulated leaves at the top of its rather long stem; used as greens. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.



Broad-Leaved Batavian Endive

Cress or Pepper Grass

CULTURAL DIRECTIONS. Sow early in the spring in rich, well prepared soil, in rows about fifteen inches apart. Thin to four inches apart in the row.

EXTRA CURLED. (Pepper Grass). A small, curled plant having a fine pungent flavor and used as a salad. Should be sown thickly and frequently, covering very lightly as it soon runs to seed. May be cut several times. Pkt., 10c; 1 oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

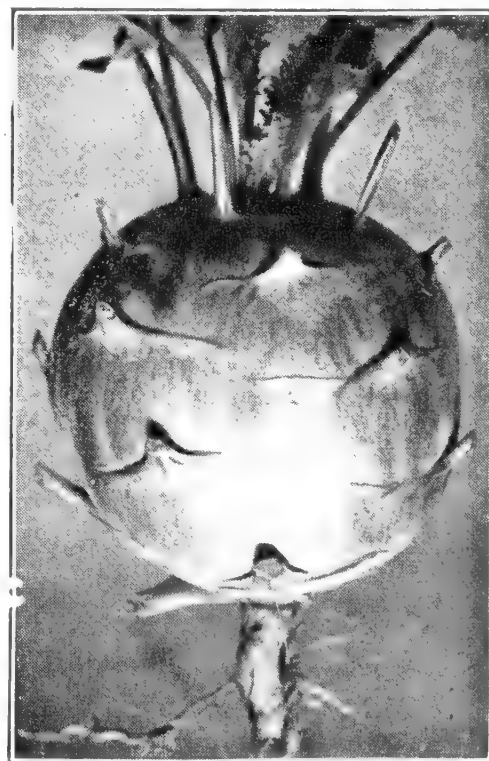
TRUE WATER. A hardy perennial water plant; the sprightly favored leaves of which are prized for salads as well as for garnishing. Must be grown on moist banks or in water covered soil. Pkt., 10c; oz., 90c; ¼ lb., \$2.75; 1 lb., \$8.00, postpaid.

Kohl - Rabi

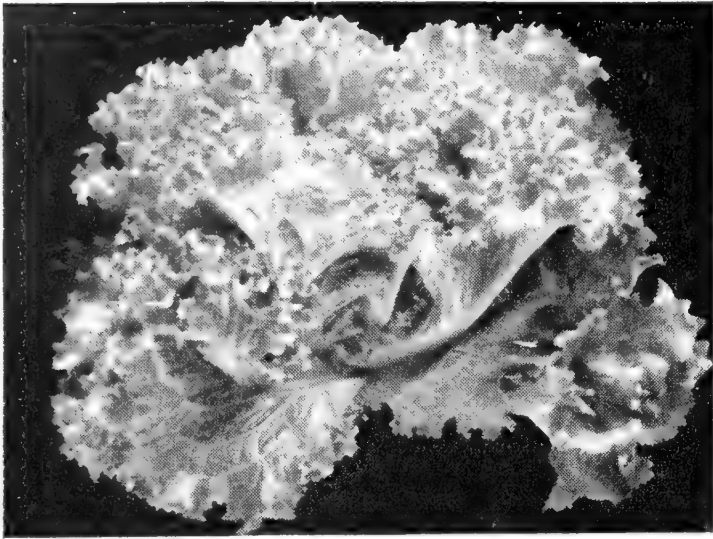
TURNIP-ROOTED CABBAGE

CULTURAL DIRECTIONS. One ounce to 200 feet of drill. Seed should be sown in light, rich soil, very early in the spring for early crop, in rows eighteen inches apart and thin to six inches apart in the row. Plantings should be made the latter part of July for fall use. Should be used when young and tender.

EARLY WHITE VIENNA. 60 days. Very early, small tops, can be planted close together; best for forcing, or field culture. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.



White Vienna Kohl-rabi



Slobolt Lettuce

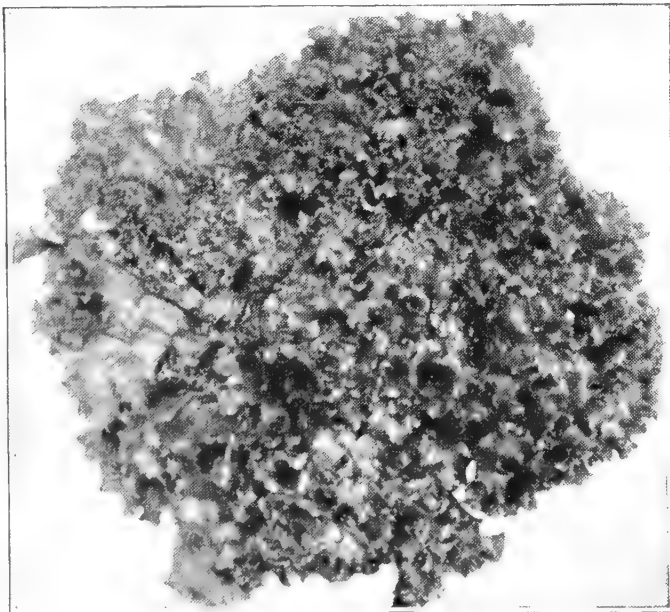
★**GRAND RAPIDS FORCING, WASHINGTON STRAIN.** 45 days. This splendid strain is one of the favorite strains being used by all of the larger greenhouse growers, who recommend it as a superior Lettuce. The late Mr. Yonker, who was one of our leading greenhouse growers, by careful plant selection, has kept it up to its original purity. It is absolutely true to type. Color is light green; heads very heavy; leaf crisp, tender and curly; quality the best. We grow our own stock seed in the greenhouse and send to one of the best seed growers on the coast to grow the seed. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

GRAND RAPIDS TIP-BURN RESISTANT. 45 days. Color light green, somewhat like the Washington strain, being used for greenhouse growing where tip-burn is visible. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

SOBOLT. A new variety of the Grand Rapids type that is slow to bolt, developed by the United States Dept. of Agriculture and has a definite characteristic for withstanding high growing temperatures. Large, erect, compact; leaves broad, wavy, heavily fringed on the edges, tender, of light green color. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

EARLY CURLED SIMPSON. 40 days. An early loose leaf variety. One of the best sorts for the home garden. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

★**BLACK-SEEDED SIMPSON.** 40 days. One of the best loose leaf varieties for home garden or for the market garden, for outdoor sowing. Can be grown all through the season; very tender. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.



Black-Seeded Simpson

Leek

AMERICAN FLAG. 150 days. Stem about 10 inches long by 2 inches thick. A strong, vigorous plant with mild flavor. One of the best sorts for the market garden. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

ELEPHANT. (Monstrous Carentan). 150 days. Large stems 6 to 8 inches long, 2 to 3 inches thick. Leaves very dark green, hardy, prolific, for fall and early winter use. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

Leaf Lettuce

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Lettuce requires rich soil to grow best quality. Mix pulverized hen manure with the soil and sow seed very early in the spring. For Leaf Lettuce, sow in rows twelve inches apart and do not thin until plants are big enough to use. Head Lettuce should be sown in rows twelve inches apart and thinned to eight inches apart in the row.

During warm weather germination may be greatly aided by firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.



Grand Rapids Forcing, Washington Strain

PRIZEHEAD. 45 days. A crisp and tender loose-leaved, non-heading sort, color light brown on a medium green base, quality good. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

CHICKEN. Tall, leafy, prolific. Dark green. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

OAK-LEAVED. 43 days. A distinct Lettuce. Leaves are smooth but are deeply lobed to resemble the leaf of an oak tree. Medium large size, spreading, fairly dark green. Leaves are thick, succulent and tender. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

Head Lettuce

BIG BOSTON. 76 days. Heads best in cool weather of early spring and late fall. We do not recommend it for the hot weather months. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

WHITE BOSTON. 76 days. Has a fine, large solid head and light green outer leaves, but does not have the brown edges. A tightly folded heart that blanches to a bright, creamy yellow shade. It is sweet and crisp. Pkt., 10c; oz., 20c; ¼ lb., 60c; 1 lb., \$1.75, postpaid.

★This variety recommended by Michigan State College

Head Lettuce—Continued

GREAT LAKES. 83 days. A heading variety of the Imperial type, developed by the U. S. Dept. of Agriculture and the Michigan State College. Leaves large and well folded; heavy ribs. Shows considerable resistance to tip-burn and ability to head under adverse conditions. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

PREMIER GREAT LAKES. 75 days. Developed from a single plant selection of Great Lakes at Penn. State College. All-America Bronze Medal, 1947. Heads solid, practically round, up to 7 inches in diameter and two pounds in weight. Slow to bolt and very resistant to tip-burn. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

GREAT LAKES No. 428. 75-80 days. An early strain. It is gray-green in color. The wrapper leaves lay back from the head exposing a large, well rounded head with a smooth base and small ribs. It is very uniform in maturity, and during 1949 made a name for itself in marketing quality. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

GREAT LAKES No. 407. 90-100 days. The medium strain. This variety was selected primarily for its resistance to tip-burn, sunburn and rain. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

GREAT LAKES No. 659. 110-120 days. The late strain. This Lettuce has the rare quality of a completely covered head which is large, round, very firm and excellent in quality. The plant is dark green and resistant to tip-burn and sunburn. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

PENNLAKE. 83 days. Developed at the Pennsylvania Experiment Station, from a cross of Great Lakes and Imperial 847. Heads compact and well covered, protected from scald by broad wrapper leaves. Less ribby than Great Lakes, but equally solid and resistant to tip-burn. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.



Cos Lettuce

Read Roy E. Biles'
"GARDEN MAGIC"

320 pages, 17 full color illustrations, hundreds of line drawings; practical, durable binding and gilt stamped; size 8x10¾ inches. \$3.50, postpaid.

ALSO the MODERN FAMILY GARDEN BOOK, 160 pages, fully illustrated; size 7x10½ inches. \$1.75, postpaid.

Plus 3% Michigan Sales Tax.

IMPERIAL or CORNELL 456. 82 days. A true selection of the Imperial type. This strain shows greater resistance to tip-burn than does the Imperial No. 44. Particularly adapted for muck soils. Frame and head slightly smaller than Great Lakes, but makes a firm and harder head. It is a lighter green in color, and also resistant to early bolting. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.



New York or Wonderful Lettuce

IMPERIAL 44. 82 days. This is somewhat similar to Imperial 152, being a hybrid from this popular variety. It has very long well-folded leaves and produces hard well-formed heads under ideal circumstances. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

★**IMPERIAL No. 152.** 82 days. New heading variety that is outstanding over other varieties. Resistant to brown blight, and well adapted for early fall planting. The heads are medium sized, hard and attractive. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

IMPERIAL No. 847. 83 days. Resistant to brown blight. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

NEW YORK No. 515 IMPROVED. 81 days. Medium size, compact plant, but produces heads of good size. Head leaves quite upright at early variety; leaves broad, of thick texture, fairly blistered and crumpled, and a rather bright green. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

NEW YORK or WONDERFUL. 75 days. A large, late globular heading variety; leaves broad, of thick texture, fairly blistered and crumpled, and the borders frilled; color dark green, quality good. Known in California and the West as "Los Angeles" and shipped to eastern markets under the misleading name of "Iceberg." For an all-season variety stands unrivaled. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

ROMAINE or EARLY WHITE SELF-FOLDING LETTUCE. 66 days. We consider this the very best strain of the Cos variety. Very uniform in type, and forms a compact, firm head. Color dark green outside and beautifully blanched inside. Very crisp; sweet. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

DARK GREEN COS. 70 days. A medium large dark green variety which forms a good sized, well folded head. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BIBB LETTUCE. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

★This variety recommended by Michigan State College

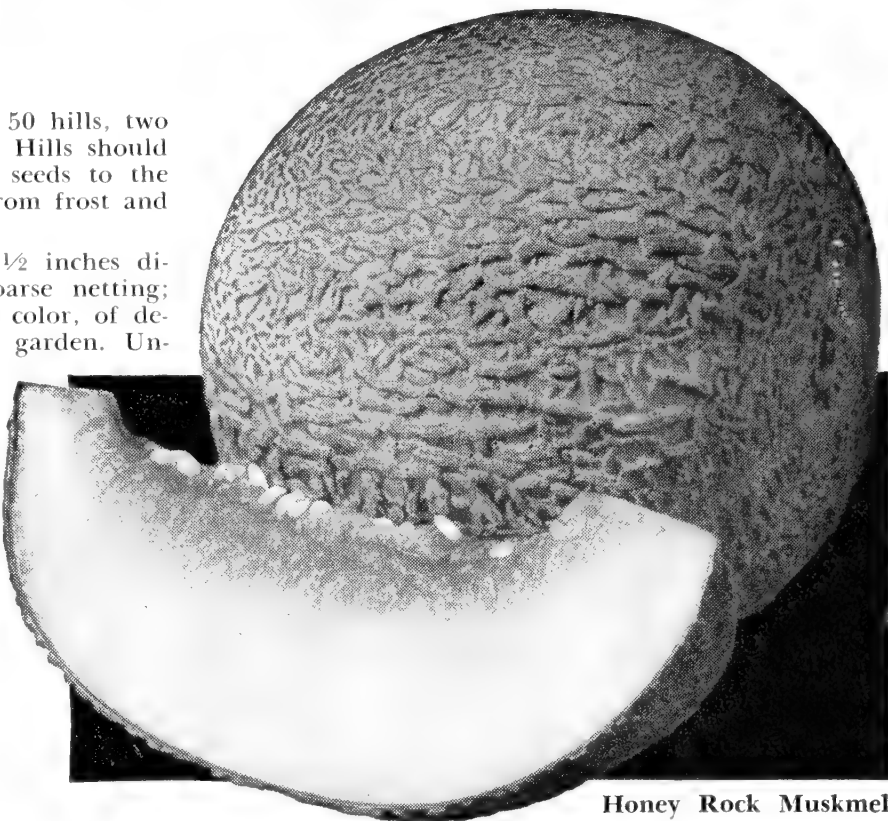
Muskmelons

CULTURAL DIRECTIONS. One ounce will plant 50 hills, two pounds an acre. Melons do best in a rich, sandy soil. Hills should be from four to six feet apart. Plant ten to twelve seeds to the hill. Cover seeds with an inch of soil. When danger from frost and insects is past, thin to four good plants to the hill.

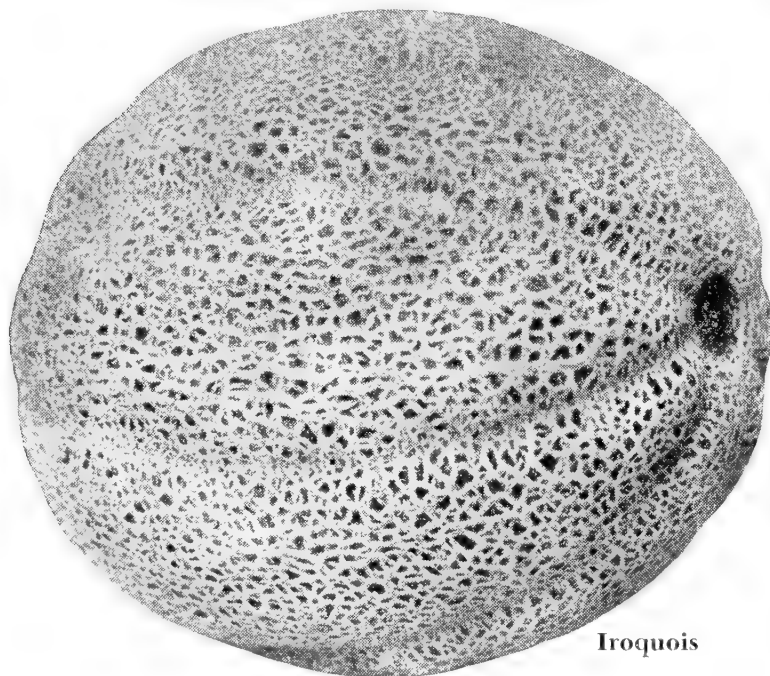
CRAIG'S HONEY. 90 days. 7½ inches long by 6½ inches diameter; skin pearly green: distinct ribbing. Very coarse netting; flesh very thick, firm with exceptionally deep salmon color, of delicious quality, sweet and spicy. Excellent for home garden. Unequalled for roadside market trade. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

★**HEARTS OF GOLD.** 88 days. A splendid small, midseason variety. Fruit round, 6 inches long and 5½ inches in diameter, weighing 3 to 3½ lbs., with a tendency to heart shape, lightly ribbed and covered with a fine gray netting; flesh very thick, deep salmon color, and of high quality; a good shipping Melon. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

★**HONEY ROCK.** 80 days. One of the most prolific varieties grown. The fruit is round, slightly flattened at the ends, 5 to 6 inches in diameter, weighing 3 to 4 lbs., and distinctly netted. The flesh is soft pink with a greenish tint. The rind is hard and the flesh so firm that it is an excellent shipper. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.



Honey Rock Muskmelon



Iroquois

PRIDE OF WISCONSIN.

(Market King). 85 days. Similar in size and shape to Honey Rock. Oval in shape with tough, heavily netted rind. 6 inches long and 5½ inches in diameter, weighing 3½ to 4½ lbs. Flesh deep orange and very thick, sweet and of excellent quality. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

HALE'S BEST No. 936. 82 days. Is fairly early; a good shipper. oval in shape, averaging 5 in. in diameter and 7 to 9 in. long, with heavy netting, and fairly prominent ribs. The flesh is a rich deep salmon color with a very fine flavor. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

No. 10 PYROCIDE DUST is the control measure against beetles and other insects. Apply promptly and grow your Melons without any trouble. Circular free on request.

BENDER'S SURPRISE. 90 days. Delicious, salmon fleshed Melon, medium to large; oval, distinctly ribbed and covered with slight patches of netting; skin light yellow when ripe. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

IROQUOIS. 90 days. This new melon has definite resistance to Fusarium wilt. Fruits are round to oval, about 6½ inches in diameter, with prominent ribs and good netting; the rind is tough and holds up well. Flesh is deep orange color, of fine texture and excellent quality. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

SCHOON'S HARD SHELL. 90 days. Thick, oval, prominent ribbing with abundant coarse netting; skin gray-green becoming yellow at maturity; flesh very thick, deep salmon-orange, well flavored, excellent quality. 6½ to 7½ inches in diameter, weighing 5 to 7 lbs. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

EXTRA EARLY OSAGE. 84 days. Standard variety of splendid quality for nearby markets and home gardens. Fruits 6 to 7 inches long; almost round; with shallow furrows and sparse shallow netting. Flesh very thick; salmon-orange; fine-grained, sweet and aromatic. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.

OSAGE or MILLER'S CREAM. 92 days. Splendid Melon for home or market garden. Fruits 7 inches long and 6½ inches in diameter. Almost round; dark green skin that shows trace of yellowing at ripening stage, slightly netted and ribbed, flesh very thick, juicy, sweet, spicy, deep salmon-orange. Pkt., 10c; oz., 25c; ¼ lb., 70c; 1 lb., \$2.00, postpaid.



Pride of Wisconsin

Selected Varieties of Watermelon

CULTURAL DIRECTIONS. One ounce to 30 hills, about four pounds per acre. Watermelons want rich, sandy soil. Cultural directions the same as for Muskmelons, except the hills should be eight feet apart.

HARRIS EARLIEST. (Cole's Early). 75 days. The best extremely early variety; fruits medium size, broad, oval; weighing 10 to 12 lbs., dark green stripes alternate with lighter; rind brittle, flesh bright red of good quality, seeds blackish. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

TOM WATSON. 92 days. Produces Melons 18 to 24 inches long by 10 to 12 inches in diameter, weighing 35 to 40 lbs. Flesh deep red and very crisp; melting and of exquisite flavor. Good shipper. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

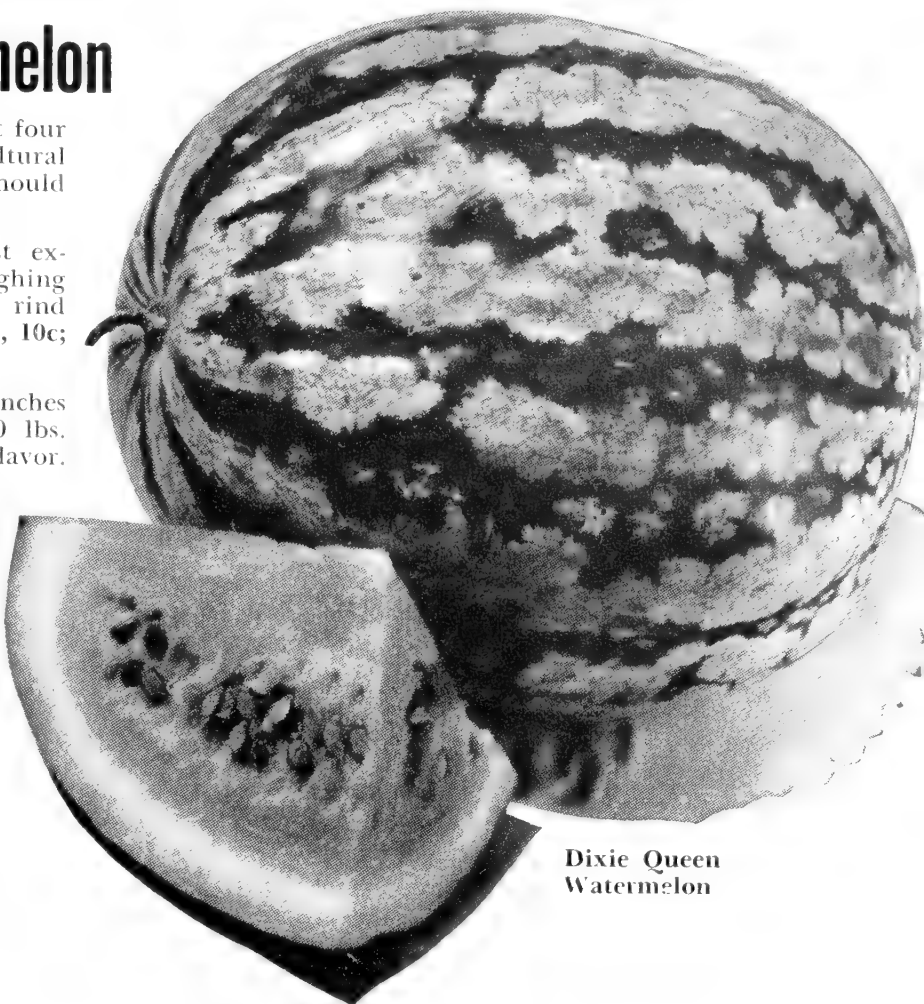
★**KLECKLEY'S SWEET or MONTE CRISTO.** 85 days. One of the sweetest Melons on the market; medium early, long, averaging 18 to 20 inches, slightly tapering to the stem end, weighing 30 to 40 lbs. Rind very dark green, flesh very bright red and ripens nearly to the rind. Too tender for a shipping Melon, but excellent for market and home garden. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

PEERLESS or ICE CREAM. 85 days. An old standby. Medium early; fruit oblong, weighing 18 to 20 lbs.; rind light green, mottled and veined; flesh scarlet, solid to center, sweet, melting and delicious. Not a good shipper. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

SWEETHEART. 85 days. A medium early variety grow to a large size; a heavy, round to oblong form with rather thick, tough rind and a good shipper, weighing 20 to 25 lbs. Color very light green, flesh bright red, with black seeds. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

CITRON, RED SEEDED. 90 days. The old well known red-seeded preserving Melon. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

STONE MOUNTAIN. 90 days. This variety combines extra large size with earliness. It is nearly round in shape, pleasingly green in color and unexcelled for sweetness and juiciness. Fruits weigh from 35 to 40 pounds in the South, and the 95 days required for maturity make it easily possible to grow correspondingly large fruits in the North. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Dixie Queen Watermelon

IRISH GREY. 95 days. Especially valuable for distant shipping. Fruits large oblong; uniform light grayish green, rind extremely hard and rough; flesh bright red, of good quality, weighing around 35 lbs. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

DIXIE QUEEN. 85 days. A new variety, for the market and the home garden. Excellent quality, fruit nearly round, with light and dark green stripes, growing to a good size. Rind thin, but tough—flesh bright scarlet, solid, of fine texture, weighing around 30 lbs. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Kleckley's Sweet or Monte Cristo

Mustard

SOUTHERN GIANT CURLED. 30 days. Plant vigorous and hardy, upright spreading growth, leaves large, green tinged yellow, much crumpled and frilled at the edges. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

LARGE SMOOTH-LEAF. 50 days. Large, vigorous leaves, broad and oval, deep green, margin toothed but otherwise plain. Pkt. 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

Okra or Gumbo

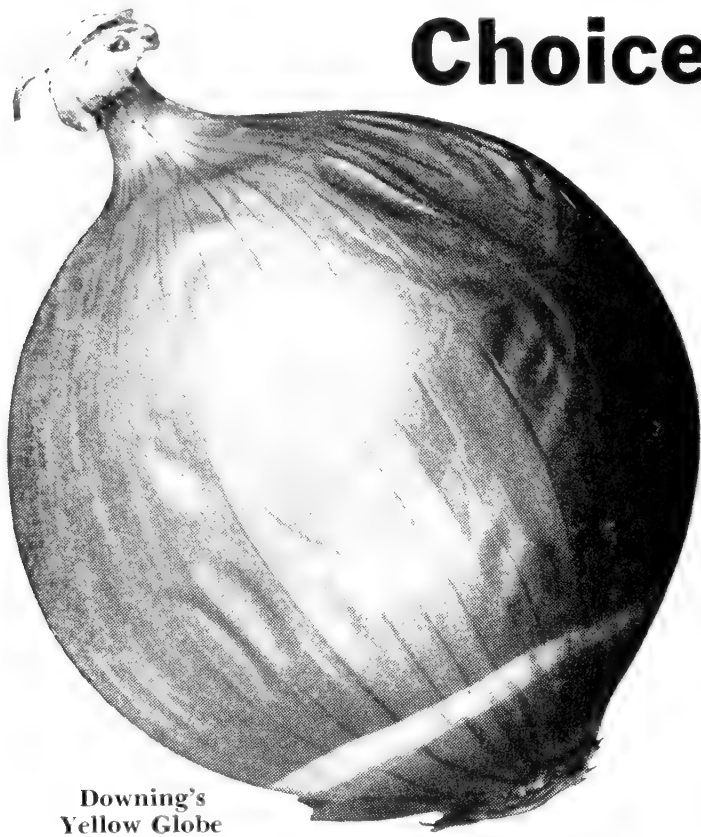
WHITE VELVET. 60 days. Plants 3½ feet high, pods white, long, smooth and tender; early and productive. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

PERKINS MAMMOTH LONG POD. 56 days For home and market garden. Plants 4 to 5 feet tall, pods dark green, fleshy, tender, becoming 7 to 8 inches long. Distinctly ribbed and tapered. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.



Okra

Choice Onion Seed



Downing's
Yellow Globe

Sweet Spanish

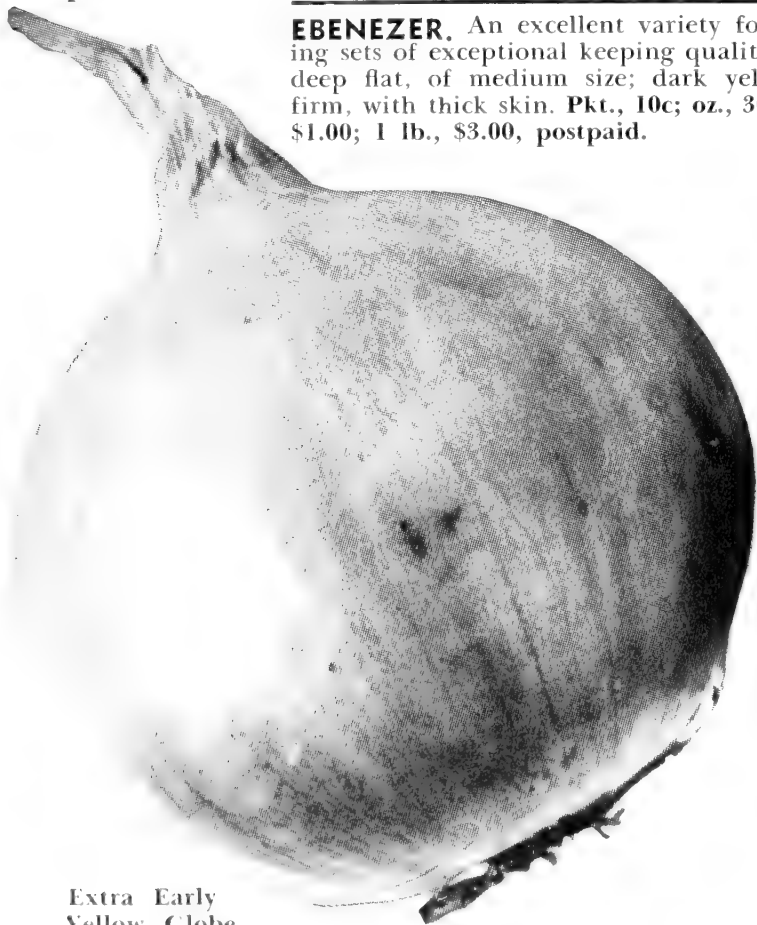
MICHIGAN STATE'S SWEET SPANISH. Not available. It is reported to be a crop failure.

UTAH SWEET SPANISH. 110 days. Desirable because of its deep yellow color, excellent keeping qualities, thicker skin and uniformity in size. Bulbs are globe shape at about 2½ to 3 inches, when larger they assume a slightly flattened globe shape. Flesh white and of mild, pleasing flavor. Pkt., 30c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

SWEET SPANISH, GROWER'S STRAIN. 110 days. The largest yielder of the yellow Onions, averaging 3 to 4 inches in diameter. The best and not susceptible to the attack of thrip. Good keeper and shipper. Pkt., 30c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

WHITE SWEET SPANISH. 110 days. Similar to the original Sweet Spanish, except that it is white with glistening skin. Globe-shaped. Pkt., 30c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

EBENEZER. An excellent variety for producing sets of exceptional keeping qualities. Bulbs deep flat, of medium size; dark yellow, very firm, with thick skin. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.



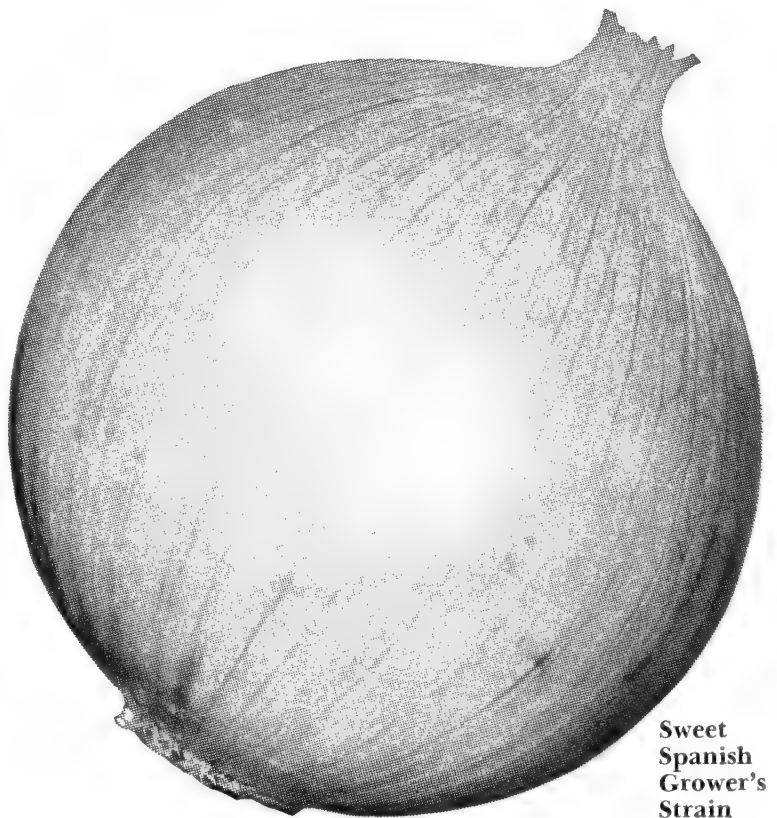
Extra Early
Yellow Globe

CULTURAL DIRECTIONS. One ounce of 100 feet of drill; about four pounds to the acre. Onions for the market are generally grown on muck land in Michigan, but may be grown for home use on any rich, loamy soil. They appreciate plenty of fertilizer on muck; the market growers apply heavily about a 2-8-16 fertilizer. Drill in rows about a foot apart.

DOWNING'S YELLOW GLOBE. A new strain of Yellow Globe type, and superseding all the others. Compared with Brigham Yellow Globe it has a uniformly darker color and is considered an improvement over the well known storage types. Bulbs globe-shaped, are very solid with tight fitting skins; excellent keeping qualities. 110 days to maturity. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75, postpaid.

BRIGHAM STRAIN. (The long keeping Onion). (109 days). One of the leading varieties of yellow globe Onions. Bulbs are selected for type and quality and produce Onions that are larger with a vigorous growth. They are good keepers, globe shaped with a rich golden color. Pkt., 10c; oz., 45c; ¼ lb., \$1.25; 1 lb., \$3.75, postpaid.

★**EXTRA EARLY YELLOW GLOBE.** 98 days. Excellent semi-globe shaped and is a good yielder. It ripens well, and under normal conditions the bulbs are ready for market 10 days ahead of the Southport Yellow Globe. The color is a rich deep yellow and it can be kept in storage for a limited time. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.



Sweet
Spanish
Grower's
Strain

Hybrid Onions

Scientific plant breeding makes it possible for us to offer Onion types with hybrid vigor, leading to heavy yields, uniformity and high quality. The following are available from the 1950 crop.

Y-40. A mid-early, mild, sweet type, nearly full globe (slightly elongated at the base). Appearance something like the Early Yellow Globe, but earlier in maturity by ten days.

Y-41. This hybrid produces bulbs of almost globular shape, slightly tapered to the bottom, with thin but tight, straw-colored skin, and mild, white flesh. A first early type, being of the same maturity as Early Yellow Globe, but with better skins and up to 50% higher yields.

Y-42. A hybrid of Yellow Sweet Spanish type, but about 10 days earlier than this well-known old variety. The bulbs are globular with good tight necks, deep straw colored skins, and mild, white flesh. Produces a heavy yield of large, uniform and attractive onions.

These three varieties are not in our own immediate stock, and orders should be placed early to insure having the seed in ample time for planting. We quote them as follows: Oz., \$1.25; ¼ lb., \$4.25; 1 lb., \$15.00, postpaid.

★This variety recommended by Michigan State College

Onion Seeds—Continued

PRIZETAKER or MAMMOTH YELLOW SPANISH. 105 days. Very large, and nearly round, light straw color, very mild and sweet. Late. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

YELLOW GLOBE DANVERS. 105 days. A popular dependable variety. Is an exceptional keeper. Pkt., 10c; oz., 45c; ¼ lb., \$1.35, 1 lb., \$4.00, postpaid.

★**SOUTHPORT WHITE GLOBE.** 120 days. Same type as Southport Yellow Globe, with a thin delicate skin of pure paper whiteness, but two weeks earlier and exceedingly mild. It usually commands the highest price on the market. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.50, postpaid.

WHITE PORTUGAL or SILVERSKIN. 100 days. An early flat white Onion of mild flavor. Used mostly to grow sets. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

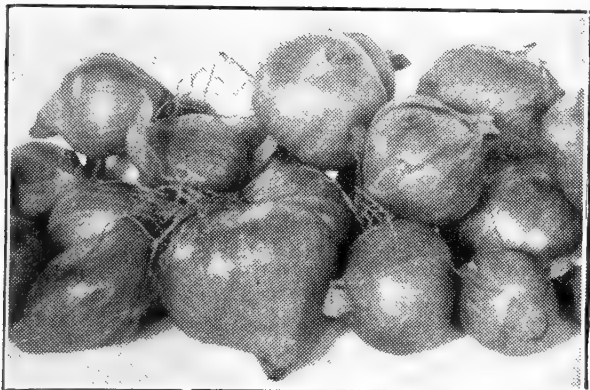
WHITE BARLETTA. 65 days. One of the earliest, handsomest and smallest of white pickling Onions. Makes a good bunching sort. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

WHITE WELCH. 100 days. While it forms no bulbs it is one of the best for bunching as green Onions. Very hardy. The white shoots make a rapid growth and are ready for market ahead of those from sets. Mild and delicate in flavor. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

LONG BUNCHING (Heshiko.) (American grown). A new perennial bunching Onion that does not form a bulb. Pkt., 10c; oz., 45c; ¼ lb., \$1.35; 1 lb., \$4.00, postpaid.

Onion Sets and Plants

We can supply the Silverskin, Yellow Ebenezer, Yellow Globe or the English Multiplier sets, as well as Texas Bermuda Onion plants, and will solicit your inquiries.



Onion Sets

Parsnips

CULTURAL DIRECTIONS. One ounce will sow 100 feet of drill; three to four pounds per acre. Sow in April or May. Parsnips require a long season to mature. Sow thickly, thin as for Carrots. Seed does not germinate well unless conditions are just right.

HARRIS MODEL or ALL AMERICAN. A most refined Parsnip. Exceptionally smooth and free from side roots, with a very attractive whitish color. Roots about 12 inches long with a well proportioned shoulder uniformly tapered to tip. Very tender and of fine flavor. Oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

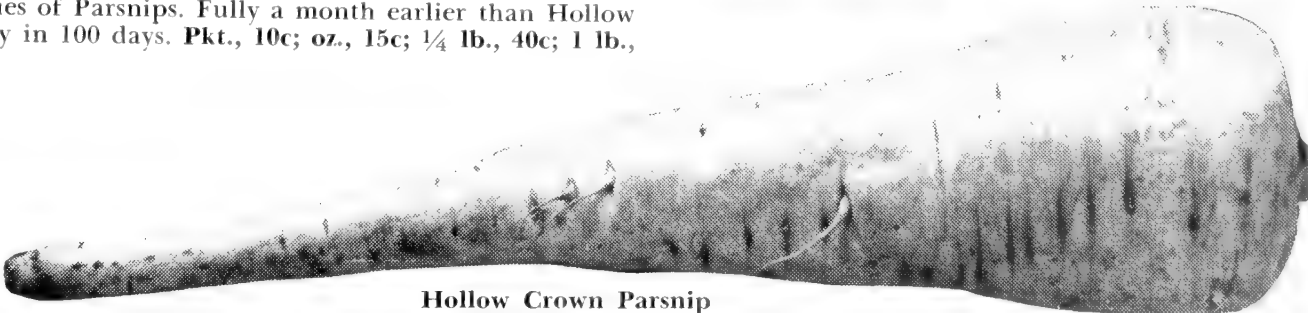
HOLLOW CROWN. 130 days. Thick shoulder. This variety is more generally grown than any other sort; roots smooth, tender and sugary. Pkt. 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

LONG SMOOTH DUTCH or SUGAR. 130 days. Roots very long, slim, much sweeter than the Hollow Crown. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

SHORT THICK. 100 days. A fine bunch vegetable, tops one-half size of Hollow Crown. Short, thick roots, free from strings, flavor much more delicate than other varieties of Parsnips. Fully a month earlier than Hollow Crown and reach maturity in 100 days. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

Strawberry Plants

Dunlap, Premier or Everbearing. We will have good, sturdy plants in season, and solicit your inquiries.



Hollow Crown Parsnip



Southport White Globe

Chives

A hardy perennial of the Onion type. Listed under "Herbs" on page 26. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$10.00, postpaid.

Parsley

CULTURAL DIRECTIONS. One ounce to 150 feet of drill. Seed germinates very slowly. Sow thickly in rows about 15 inches apart, and thin to four or five inches apart in the row. Parsley requires a rich soil.

TRIPLE CURLED or MOSS CURLED. (Paramount.) 85 days. Plant handsome, beautifully curled and rapid grower. Will produce a large crop. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.

HAMBURG ROOTED. 90 days. Grown for the root which resembles a Parsnip in shape and color. Foliage very much like plain Parsley. Pkt., 10c; oz., 15c; ¼ lb., 40c; 1 lb., \$1.25, postpaid.



"Paramount" Moss-Curled Parsley



Dwarf Telephone Peas

Garden Peas

CULTURAL DIRECTIONS. One quart will plant 100 feet of drill; about 56 pounds per acre. Peas do best on rich, sandy loam that has been well manured the previous season. Plant smooth, early sorts as soon as the ground can be worked in the spring. The wrinkled varieties are liable to rot if the soil is cold and wet, and should be planted later.

LITTLE MARVEL or DARK PODDED SUTTON'S EXCELSIOR. 60 days. One of the most prolific of the second early sorts. Pods long, 3 to 4 inches, filled with deliciously sweet Peas. Vines about 15 inches tall. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

LITTLE GEM. 58 days. A second early, hardy variety. Prolific, bearing pods on both sides of the stalk, beginning near the ground. Pods medium length, round, and well filled to the end. Height of vine about 15 inches. Seed green, wrinkled. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

ALASKA. 57 days. A small, smooth blue Pea, and one of the earliest. Grown largely by canners and market gardeners for early crop. Vines about two feet in height, pods small, but well filled. Can nearly all be harvested at one picking. Lb. 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 15 lbs. (1 pk.), \$3.25; 60 lbs. (1 bu.), \$12.50.

AMERICAN WONDER. 60 days. One of the earliest and sweetest wrinkled Peas. Vines very dwarf and productive. Pods small, but well filled. The most delicious Pea for the home garden. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

★**IMPROVED LAXTONIAN.** 62 days. The best of the Laxtonian type. Second early. A little earlier than the Gradus. Vine 16 inches high, sturdy, dark green and productive; pods dark green, four inches, broad, containing eight large Peas of excellent quality. The best second early, big-podded sort. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

CHAMPION OF ENGLAND. 80 days. Vines 4 to 5 feet in height, productive. Pods 2 to 3 inches long, broad and well filled. Peas medium size, of unsurpassed sweetness. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

★**WORLD'S RECORD.** 58 days. A new variety on the order of Gradus, being slightly earlier, more productive and true to a fixed type. Grows about 2 feet in height, with large, dark green pods nearly 4 inches in length, broad, pointed and always well filled with large, sweet Peas of splendid quality. An excellent, profitable sort for home or market garden. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

★**THOMAS LAXTON.** 62 days. One of the best second early sorts for the market gardeners. Vines of same height as the Gradus, but a little earlier, more hardy and productive. Pods long, blunt-ended and well filled with large Peas. Peas wrinkled. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

★**DWARF TELEPHONE.** A splendid main crop Pea, coming between the Telephone and Stratagem. Of the Stratagem type, but a heavier yielder. Height 2½ feet. Foliage very heavy, sturdy and dark green. Pods 4¼ inches long, dark green, broad, straight and pointed, containing nine large, medium dark green Peas of the best quality. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

★**ALDERMAN.** 72 days. A little later than the Telephone. Vines about four feet in height; very heavy foliage. One of the most productive sorts. Pods long, dark green, well filled; seed wrinkled. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

LAXTON'S PROGRESS. 60 days. Splendid variety for home, market garden and shipping. Vines dwarf, about 22 inches, dark green, prolific. Pods 4¼ inches long, handsome; dark green; plump, tapered at ends. Seeds large, wrinkled, cream, interior yellow. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

TELEPHONE. 72 days. A standard high quality, large-podded Pea, for main crop; productive; height 4½ feet. Vine and foliage strong and heavy, medium green. Pods 4 ½ inches long, medium green, straight, broad and pointed, well filled. Suitable for quick freezing. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

CALIFORNIA BLACK EYE. 95 days. A newer improved selection. Has concentrated pod set at crown. Holds pods erect, has large seed and is resistant to charcoal rot, cowpea wilt and nematodes. Normally much more productive than the old type Black Eye. Popular for edible purposes. 1 lb., 40c, postpaid. Not postpaid, 10 lbs., \$3.50; 25 lbs., \$7.75.

Edible Pod Sugar Peas

The pods of the varieties listed below are cooked with the Peas. They have a high sugar content and make a delicious dish, and once tried, they will be regularly grown.

DWARF WHITE SUGAR. (Wilt resistant.) 64-67 days. Vines 24 to 30 in. tall. Slender, medium green, branching, productive, white blossomed. The pods are 2½-3 in. x 5/8-¾ in., straight to slightly curved, fairly plump, semi-pointed, light green, borne singly or doubly, tender, excellent quality. Lb., 30c, postpaid. Not postpaid 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

DWARF GRAY SUGAR. 62 days. A dwarf, edible pod variety. Vines about 2 feet high. Cook pods like string Beans. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.

MELTING SUGAR, or EDIBLE POD. 70 days. A tall variety, bearing large, flat, brittle pods. These are sweet and are cut or broken and cooked like string Beans. It is a delicious vegetable and should be better known and more generally used. Lb., 30c, postpaid. Not postpaid, 5 lbs., \$1.40; 14 lbs. (1 pk.), \$3.75; 56 lbs. (1 bu.), \$14.00.



World's Record Peas

Peppers

CULTURAL DIRECTIONS. One ounce will produce about 2000 plants; about 7000 plants for an acre. Sow seeds in hotbeds from February to April; transplant to open ground when all danger from frost is past, in rows about three feet apart and eighteen inches apart in the row. Seed can be sown in the open ground late in May, and thinned as above. Cover seed about half an inch.

CALIFORNIA WONDER. 72 days. Thickness of flesh alone, which is often $\frac{3}{8}$ of an inch, places this sweet pepper above all others. Vigorous growing plants, blocky fruit 5 inches long and 4 inches wide. When fully matured, it has a waxed appearance. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

OAKVIEW WONDER. 63 days. An earlier and more productive strain of California Wonder. Fruits blocky, smooth, with thick, mild, sweet flesh. Plants shorter and stockier but fruits are set earlier and more abundantly. An outstanding strain unsurpassed for shipping and for the home and market garden. Pkt., 10c; oz., 70c; $\frac{1}{4}$ lb., \$2.35; 1 lb., \$7.00, postpaid.

CHINESE GIANT. 80 days. Mammoth fruits 12 to 15 inches in circumference. Flesh thick, tender, mild and sweet. Pkt., 10c; oz., 70c; $\frac{1}{4}$ lb., \$2.35; 1 lb., \$7.00, postpaid.

HARRIS' EARLY GIANT. 63 days. The earliest and most prolific of all large Peppers. Is of dwarf, compact growth, bearing as many as 12 pendent fruits on a single plant. Fruit scarlet, measuring 5 inches long by $3\frac{1}{2}$ inches in diameter; three-lobed, mild and sweet. A profitable Pepper for the market. Pkt., 10c; oz., 70c; $\frac{1}{4}$ lb., \$2.25; 1 lb., \$6.50, postpaid.

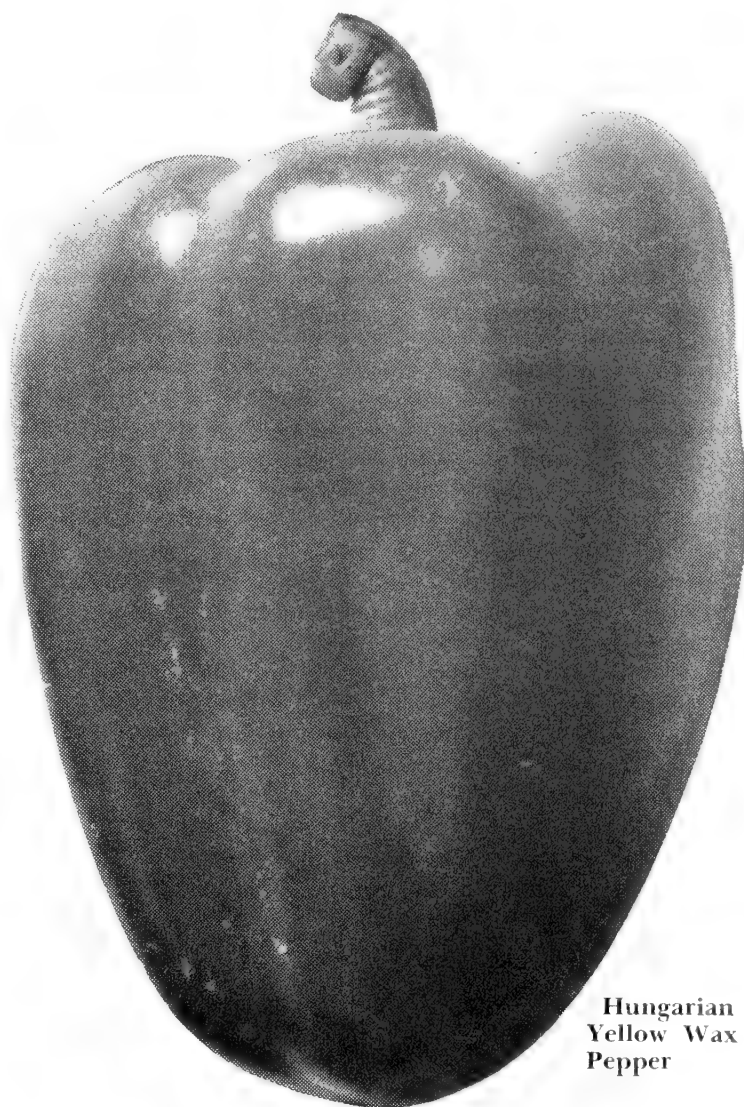
SUNNYBROOK. 73 days. Sweet. Fruits Tomato-shaped, 2 inches deep, 3 inches in diameter, smooth, glossy dark green turning to deep scarlet-red. Flesh thick and sweet. It is early and productive. Truly a home garden variety. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

KING OF THE NORTH. 64 days. A late introduction and a winner. Similar in type to Ruby King but decidedly earlier. The plant is of medium size and prolific. The fruit is long, moderately slender, tapering to three or four points. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

LONG RED CAYENNE. 70 days. Pendent fruits about 5 inches long and $\frac{3}{4}$ inch in diameter at the base, often curved and twisted; bright red, hot and pungent. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.



Long Red
Cayenne Peppers



Hungarian
Yellow Wax
Pepper

HUNGARIAN YELLOW WAX. (Hot.) 60 days. Very early. Desirable for home, market garden and canning. Plants small, heavily productive. Fruits 6 to 7 inches long, 2 inches thick, tapered, smooth, waxy light yellow becoming bright red. Flesh thick, pungent. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

HUNGARIAN YELLOW SWEET. 60 days. Considered the first early Pepper in the season. Plant is 12 to 15 inches in height, very hardy, and prolific, bearing fruit both upright and pendent. The fruit is from $5\frac{1}{2}$ to 6 inches long by $1\frac{1}{2}$ inches in diameter, tapered, smooth flesh; is fairly thick and pungent. Color is waxy yellow, becoming a bright red at maturity. Pkt., 10c; oz., 40c; $\frac{1}{4}$ lb., \$2.25; 1 lb., \$6.50.

SWEET BANANA. 65 days. The plant is 20 to 24 inches tall, upright, dark green, very vigorous, heavy foliage of large leaves. Fruit $6\frac{1}{2}$ to $7\frac{1}{2}$ inches long, $1\frac{1}{2}$ inches in diameter, tapered to the point with very slight curve; sweet, medium flesh wall, light yellow turning to bright red at maturity. Is an excellent variety for home and garden. Pkt., 10c; oz., \$1.00; $\frac{1}{4}$ lb., \$3.00; 1 lb., \$10.00, postpaid.

BULL NOSE or LARGE BELL. 55 days. Large, bell-shaped, thick-fleshed fruit. Good for Mango pickles. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

WORLD BEATER. 70 days. The most prolific large Pepper. Fruit very large, about 5 inches long. Flesh thick, mild and sweet. Pepper tapering and of a bright ruby color when ripe and very attractive. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

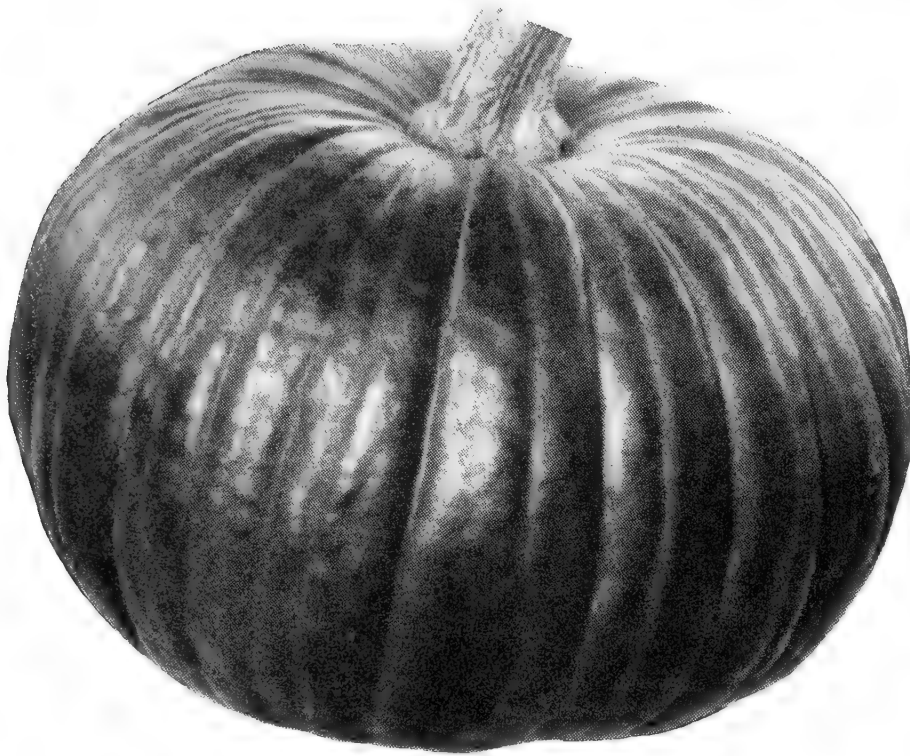
NEAPOLITAN. 60 days. A very early, medium large, prolific variety. Fruits upright in growth, three-lobed, yellowish green, becoming bright red, flesh extremely mild and sweet. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

RUBY KING. 65 days. One of the most profitable and satisfactory varieties for the home or market garden; plants are early, productive and of dwarf compact, upright growth; fruits pendent, often 4 to 6 inches long, by 3 to 4 inches thick, tapering and of a bright ruby-red color; flesh is thick, mild and sweet. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

PIMENTO. 73 days. A rather late, very thick-fleshed, heart-shaped, smooth, mild, crimson variety; much used for salads. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

RED CHILI. 85 days. Small, red, cone-shaped. Very hot and prolific. Used for seasoning. Pkt., 10c; oz., 65c; $\frac{1}{4}$ lb., \$2.00; 1 lb., \$6.00, postpaid.

Pumpkins



Connecticut Field Pumpkin

CULTURAL DIRECTIONS. One oz., of seed for 20 hills. About 3 pounds per acre. Usually grown in cornfields, but can be grown as a separate crop. Seed should be planted in hills 8 to 10 feet apart each way, after soil gets warm. Cultivate until vines begin to run. Cut Pumpkins after leaves die, leaving 3 to 4 inches of stem attached to fruit. Store in a dry place, and do not bruise.

CONNECTICUT FIELD. 70 days. Generally used for planting in Corn for stock feeding; also makes good pies. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

KING OF THE MAMMOTHS. 120 days. The giant among Pumpkins. Often grows two feet or more in diameter. Pkt. 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

★**SUGAR PIE.** 108 days. Fruit small, round, flattened at the ends, and slightly ribbed. Skin and flesh deep orange-yellow. Flesh very thick and of high quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

WINTER LUXURY. 100 days. Round, medium in size, with a golden yellow skin closely netted like a netted Muskmelon; sweet and finely flavored and an exceptionally good keeper. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

Radishes

CANADIAN CUSTOMERS

We will accept your order only on remittance payable in United States funds or its equal. Notice announcement on page 3.

CAVALIER. 25 days. A highly colored and attractive variety for all purposes and especially for shipping. Tops small, roots oblong-globe, very firm and of bright red color. Especially adapted for growing on muck soils. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid. Not postpaid, 10 lbs., 85c per lb.; 25 lbs. or more, 75c per lb.

★**GRAND RAPIDS FORCING.** 20 days. New, improved. The best greenhouse variety and the earliest of the Scarlet Globe type, but superior in every way for greenhouse forcing. When properly grown it is the most handsome and best forcing sort with the shortest top and the Radishes are ready to pull before you realize it on this account. A scarlet globe variety with a short top. Pkt. 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid. Not postpaid, 10 lbs., 85c per lb.; 25 lbs or more, 75c per lb.

The Grand Rapids Forcing Varieties are nationally known. Turn to the others: Lettuce is described on page 16; Tomatoes on page 29.

Radishes prefer a deep, rich, sandy soil and an application of a well balanced fertilizer.

Due to present rates of postage, and pending increases, please bear in mind that anything that is quoted "Not Post-paid" means that the postage will be extra, and in the case of 10 lbs. of Radishes, the mailing weight would be at least 12 or 13 lbs. on which the rates in force at time of ordering would prevail, but in any case, an money that is sent us additional, would be refunded immediately when the order is filled, so be sure to include enough for postage. Present Parcel Post rates are given on page 3.

★**EARLY SCARLET GLOBE.** 20 days. We have an exceptionally fine stock of this grand variety, which has been tested by having crops grown both in greenhouses and outdoors. Our new stock will not be sold until it is tested. It is one of the earliest forcing Radishes, and does equally as well for outdoor culture. Roots are globe-shaped, of fair size, not apt to be pithy, small tops, crisp and tender, color bright scarlet. A scarlet globe variety with a medium top. Pkt. 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid. Not postpaid, 10 lbs., 85c per lb.; 25 lbs. or more, 75c per lb.



Grand Rapids Forcing Radish

★This variety recommended by Michigan State College

RADISHES—Continued

COMET. 25 days. Brightest colored of the bunching Radishes. Globe shaped, suitable for use when $\frac{5}{8}$ to $\frac{3}{4}$ inches in diameter, but become much larger without becoming pithy. Tops are slightly larger than Scarlet Globe. Roots attractive, bright clear red. Pkt. 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

★**ICICLE.** (Short Top.) 25 days. One of the earliest long varieties, white throughout. Very crisp and tender. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

FRENCH BREAKFAST. 20 days. Of oblong shape, small, quick growing, color rose-scarlet, with small white tip. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.



Early Scarlet Globe Radishes

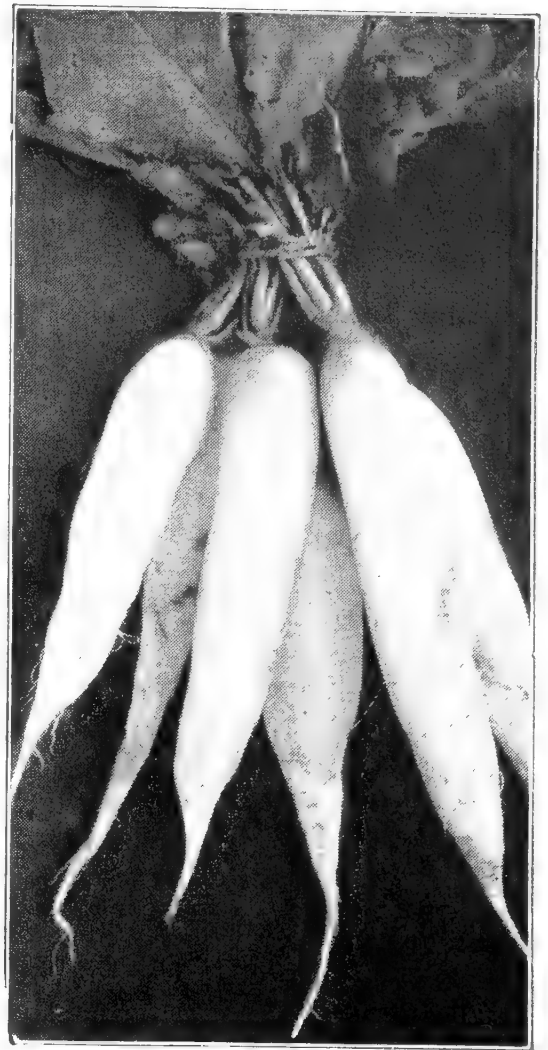
COOPER'S SPARKLER.

20 days. White tip, quite similar to Scarlet Turnip White Tip as to size and time of maturity, only the Sparkler is more round or ball-shaped, and the white extends farther up the Radish, making a more attractive bulb. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

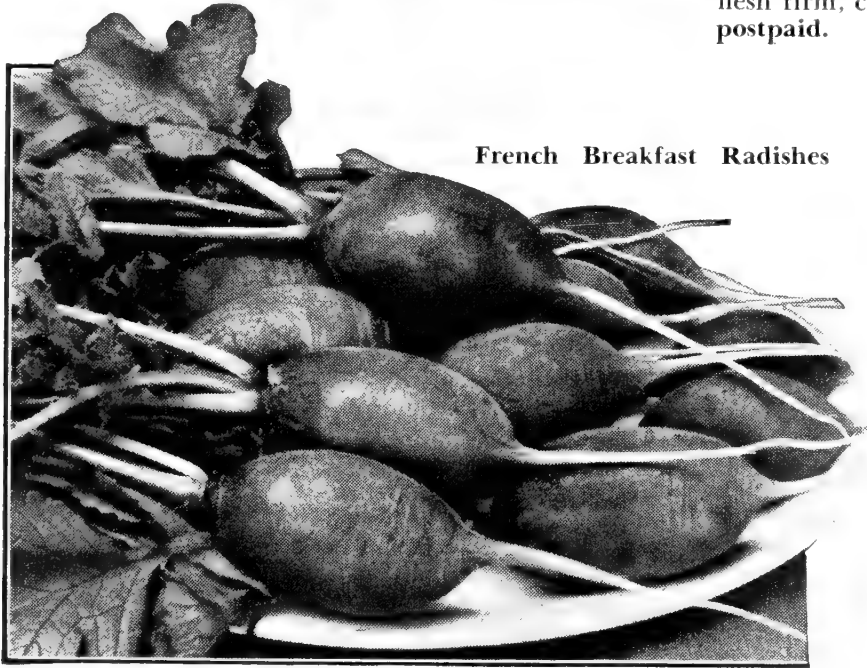
SCARLET TURNIP WHITE TIPPED.

25 days. Round, deep scarlet, shading to a white tip at the bottom. Very early. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

CRIMSON GIANT. 28 days. Larger than any other extra early variety but does not become pithy. Crimson-carminc, Turnip-shaped, flesh firm, crisp and tender. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.



White Icicle



French Breakfast Radishes

The Best Winter Radishes

WHITE WINTER. (Celestial.) 60 days. Roots six to eight inches long, thick, cylindrical and smooth, with a beautiful white skin and flesh, the whitest and least pungent of the winter Radishes. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

CHINESE ROSE WINTER. 52 days. Roots four or five inches long, blunt at both ends, about two inches thick. Skin smooth and bright, deep rose color. Flesh white and crisp. One of the best winter sorts. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

LONG BLACK SPANISH. 56 days. One of the latest and hardiest varieties for winter use; roots 8 to 9 inches long, 2 to 3 inches in diameter, and nearly black in color. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.

ROUND BLACK SPANISH. 56 days. Round, 3 to 4 inches in diameter. Skin almost black; flesh white, crisp and pungent. Pkt., 10c; oz., 15c; $\frac{1}{4}$ lb., 30c; 1 lb., \$1.00, postpaid.



Celestial White Winter

Due to present rates of postage, and pending increases, please bear in mind that anything that is quoted "Not Postpaid" means that the postage will be extra, and in the case of 10 lbs. of Radishes, the mailing weight would be at least 12 or 13 lbs. on which the rates in force at time of ordering would prevail, but in any case, any money that is sent us additional, would be refunded immediately when the order is filled, so be sure to include enough for postage. Present Parcel Post rates are given on page 3.

All prices quoted herein are subject to change without notice



American Purple Top Rutabaga

Rutabagas

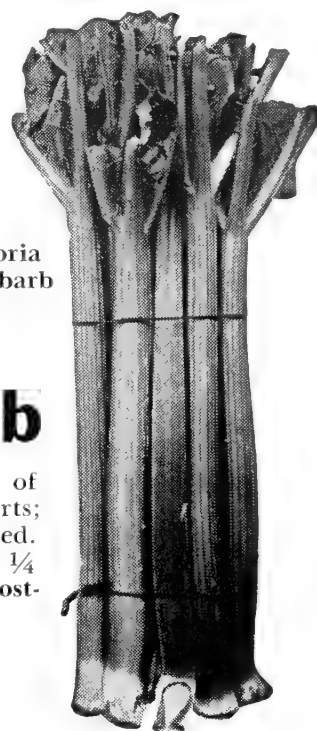
Mature in 100 days.

AMERICAN PURPLE TOP. A hardy, productive variety with small neck; roots large, globe-shaped, with small tap roots, bright yellow in color with purple top, solid, tender and sweet. Our strain is the best available. Pkt. 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

CANADIAN GEM. (Laurentian Neckless). A strain of Purple Top Swede, much preferred in Canada. Tops short, practically neckless. Roots large, spherical, purplish red above ground, light yellow below. Flesh creamy yellow, firm, mild and sweet. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.



Salsify



Victoria Rhubarb

Salsify or Vegetable Oyster

CULTURAL DIRECTIONS. One ounce to 75 feet of drill; 5 or 6 pounds to the acre. Sow the seed early in the spring in drills twelve inches apart and one inch deep. Thin to four or five inches apart. Like Parsnips, they may be left in the ground all winter and dug as soon as the ground is thawed. Salsify prefers a deep, rich sandy soil.

MAMMOTH SANDWICH ISLAND. 150 days. A splendid variety producing large, thick, tapering roots. Very uniform, mild and delicious in flavor. A popular sort with the market gardeners. Pkt., 10c; oz., 40c; ¼ lb., \$1.20; 1 lb., \$3.50, postpaid.

Rhubarb

VICTORIA. One of the best market sorts; stalks a beautiful red. Pkt., 10c; oz., 30c; ¼ lb., \$1.00; 1 lb., \$3.00, postpaid.

Aromatic, Medicinal and Pot Herbs

For early use, sow seed in hotbed or in open ground in May, in rows one foot apart. Cover very lightly and thin to six inches apart in the row. They should be cut on a dry day, just before they come into full blossom. Tie in bunches and keep where they will dry quickly.



Sage

ANISE. Used for garnishing, seasoning and for cordials. Pkt., 10c, postpaid.

BASIL, SWEET. Annual. About 12 inches tall. Entire plant has fragrant, somewhat spicy aroma; used for seasoning. Pkt., 10c, postpaid.

CARAWAY. Seeds are used for flavoring breads and pastry, meats, etc. Pkt., 10c; postpaid.

CELERIAC or TURNIP-ROOTED CELERY. Giant Prague. Pkt., 10c, postpaid.

CHICORY (French Endive). Used extensively for salads. The new leaf growth forms a compact blanched head with broad, crisp leaves, having a pleasantly sharp flavor. Pkt., 10c, postpaid.

CHIVES. Hardy perennial plants of the onion type. Easily grown from seeds. The small leaves are used for seasoning. Pkt. 10c; oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$10.00, postpaid.

CORIANDER. The seeds are used for flavoring. Pkt., 10c, postpaid.

DANDELION. Improved thick leaf. Very superior strain. Makes vigorous, very compact growth. Leaves 18 to 24 inches across, thick in texture and blanch readily. Pkt., 10c; postpaid.

DILL. Leaves are used in pickles and for flavoring soups and sauces. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

LAVENDER. True. Perennial. Flowers are dried and placed in the linen closet to impart their perfume to the linens. Also used as a repellent to moths. Pkt., 10c, postpaid.

FLORENCE FENNEL. Grown in home and market garden. Plant 2 to 3 feet tall. Chiefly grown for the bulblike structure formed by the enveloping thickened bases of the stalks of the lower leaves. This is aromatic and of a delicate sweet flavor. Pkt., 10c, postpaid.

SAGE. The most extensively used of any herb. An indispensable perennial. Very aromatic. Pkt., 25c; oz., \$1.00, postpaid.

SAFFRON. Used for coloring certain dishes, also flavoring. Pkt., 10c, postpaid.

SUMMER SAVORY. The leaves and young shoots are used for flavoring. Pkt., 10c, postpaid.

THYME. Hardy perennial, 8 to 10 inches tall, of strong, agreeable, aromatic odor and flavor; used in medicine and for seasoning culinary preparations. Pkt., 10c; oz., \$2.00, postpaid.

All prices quoted herein are subject to change without notice.

Spinach

Improved Varieties

IMPORTED TO MEET THE DEMANDS OF THE MOST CRITICAL TRADE

CULTURAL DIRECTIONS. One ounce to 100 feet of drill; eight to ten pounds per acre. Sow early for spring crop; in August for fall use; and if sown from the middle to last of September, and protected during the winter with a light covering of straw, it will be ready for use very early in the spring.

A fertilizer high in nitrogen and phosphate is recommended, especially for sandy soils.

During warm weather, germination may be greatly aided by firming the seed bed, and sowing the seed shallow. Keep the soil moist until germination is completed.

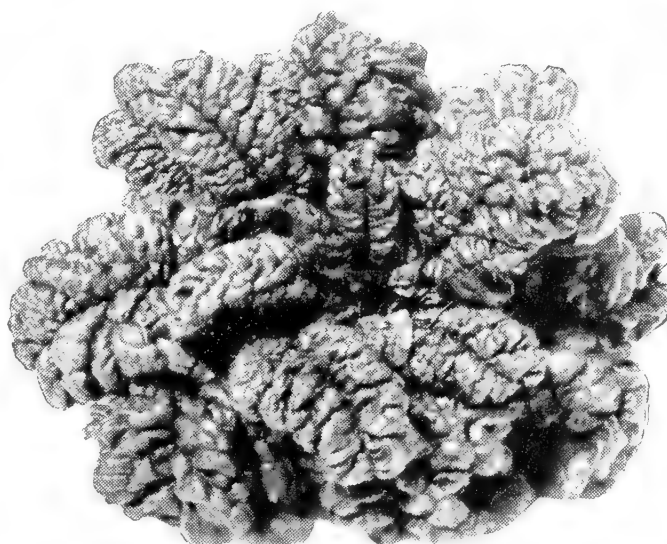
★**LONG STANDING BLOOMSDALE.** 42 days. It is early and hardy and a decided improvement on the old strain. Will stand ten to fourteen days before bolting to seed; has a heavier leaf texture, more crumpled or savoyed, and will also resist the heat much better. Suitable for quick freezing. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

ROUND SUMMER THICK LEAVED. 45 days. An old standard. Grand Rapids growers use this variety very largely for main crop for spring, summer and fall. Suitable for quick freezing. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

GIANT NOBEL. 45 days. Similar to Thick Leaf. An erect, vigorous growing, long standing Spinach, slow to run to seed. Leaves large, unusually broad, firm and thick, with rounded top. Smooth, medium green in color and the largest of any Spinach. Suitable for quick freezing. Pkt. 10c; oz., 15c; ¼ lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.



Long Standing
Bloomsdale



Virginia Savoy Spinach

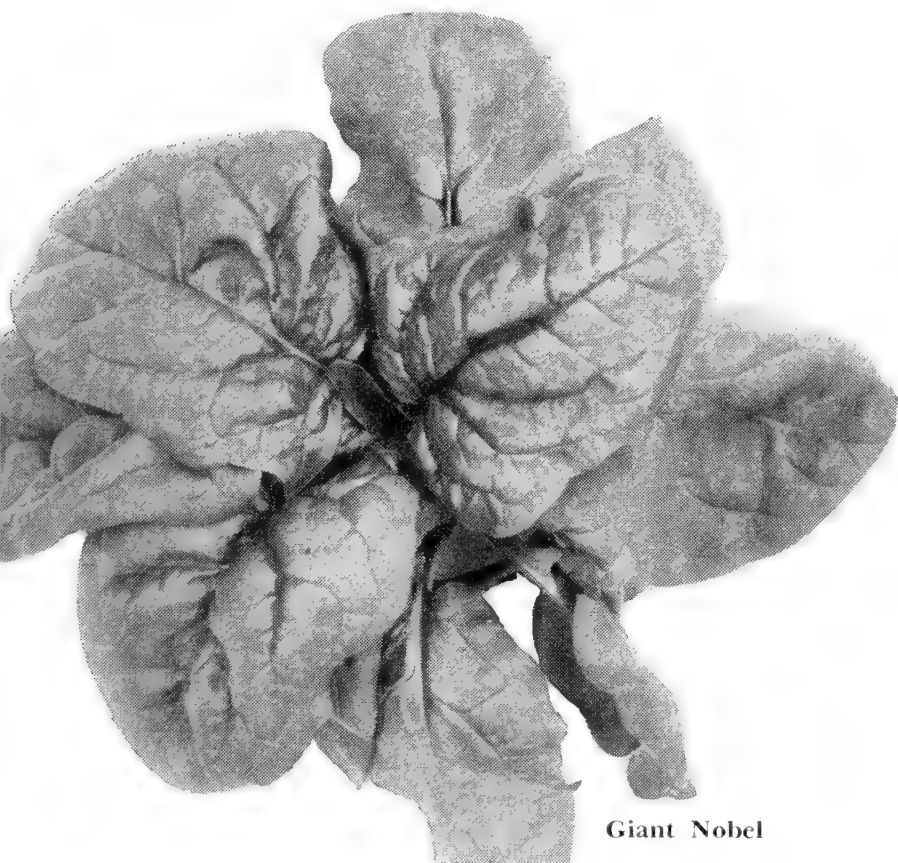
VIKING. 45 days. This new variety may well be described as a dark green Nobel. Excellent for market gardens and canning. Plant large, spreading, vigorous, thick and dark green. Suitable for quick freezing. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

HEAVY PACK. 48 days. This is a good strain of Viking. Plants are strong and vigorous with large, medium green, slightly crumpled thick leaves on short stalks. Color is intermediate between Nobel and King of Denmark. Suitable for quick freezing. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

★**KING OF DENMARK.** 48 days. Imported seed to meet the demands of the most critical trade. A standard variety for market gardeners, for spring planting. It will stand longer than any other variety before going to seed. Leaves large, rounded, and somewhat blistered. Color very deep green. Heavy yielder and excellent quality. Suitable for quick freezing. Pkt. 10c; oz., 15c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

VIRGINIA SAVOY BLIGHT-RESISTANT SPINACH. 40 days. Virginia Savoy is characterized by the large leaves and general Flanders type of growth. The low growing, wide-spreading habit makes it most desirable for winter Spinach. Plants of this type attain a very large size in late fall and carry well into early spring. A single plant often weighs more than a pound. Suitable for quick freezing. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 70c, postpaid. Not postpaid, 10 lbs., \$5.50; 25 lbs. or more, 50c per lb.

NEW ZEALAND. 60 days. Entirely distinct from the other varieties. Plant tall and spreading, leaves medium green, rather small and pointed. Prickly seeded. Pkt., 10c; oz., 15c; ¼ lb., 25c; 1 lb., 75c, postpaid.



Giant Nobel

Due to present rates of postage, and pending increases, please bear in mind that anything that is quoted "Not postpaid" means that the postage will be extra, and in the case of 10 lbs. of Spinach, the mailing weight would be at least 12 or 13 pounds on which the rates at time of ordering would prevail, but in any case, any money that is sent us additional would be refunded immediately when the order is filled, so be sure to include enough for postage. Present Parcel Post rates are given on page 3.

★This variety recommended by Michigan State College

Squash

CULTURAL DIRECTIONS. For Summer Squash, one ounce to 25 hills; two to three pounds per acre. For Winter Squash, one ounce to ten hills; about three pounds per acre. After danger of frost is past, plant eight to ten seeds to the hill for Summer sorts, about four feet apart, the last of May; and Winter varieties in hills about eight feet apart, from the middle of June to July first. Do not bruise or break the stems of Winter Squash when gathering. Store in a cool, dry place.

EARLY PROLIFIC STRAIGHTNECK. 50 days. A high yielding summer Squash. Fruits straight, smooth, and of delicate creamy color. Will grow 12 to 14 inches long but can be eaten when smaller. Quality unsurpassed. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Butternut Squash

SUMMER CROOKNECK. 55 days. The largest and one of the earliest summer varieties; fruits often 2 to 2½ feet long; very warty and deep orange in color. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

GOLDEN SUMMER CROOKNECK. 55 days. A standard early and productive summer Squash; fruits about a foot long, moderately warted and of bright yellow color. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BANANA. 105 days. A prolific, oblong variety 2½ feet in length by 6 inches in diameter, having a grey-green shell. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BANANA, PINK. Similar to the regular Banana, but exterior deep pink. Fruits average 15 inches long and 6½ inches in diameter, straight pointed at the blossom end, rounded at the stem end. Flesh thick with small seed cavity. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

YANKEE HYBRID. 50 days. The earliest, most productive summer Squash. Fruits are straight, smooth, attractive and of excellent quality. Very similar to the Early Prolific Straightneck, but this is a true hybrid and better for home and garden use. Pkt. 10c; oz., 75c; ¼ lb., \$2.25; 1 lb., \$6.50, postpaid.

The Four Hubbards

GOLDEN HUBBARD. 100 days. Similar to the Old Hubbard in form and habit, though smaller and decidedly earlier; shell moderately warted, rich orange-red; flesh deep orange, fine quality; good keeper. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

★**IMPROVED HUBBARD.** 105 days. The standard winter Squash. Shell moderately warted; deep dark bronze-green; flesh bright yellow, fine grained, thick and dry. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

★**CHICAGO WARTED HUBBARD.** 105 days. Similar in quality and form to the Hubbard, but fruit larger and a little later. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BLUE HUBBARD. 105 days. A new type of Hubbard Squash and said to excel all in the superior quality of its flesh. Similar to the original Hubbard but having a hard blue-gray shell. Pkt., 10c; oz., 20c; lb., 50c; 1 lb., \$1.50, postpaid.

MAMMOTH TABLE QUEEN. 60 days. Similar to the regular Table Queen Squash, but larger in size. The quality is unsurpassed and it is a wonderful addition. Much in demand by both home and market gardeners. Pkt. 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

TABLE QUEEN. 58 days. A Squash fit for a queen. Cut in half and baked for twenty minutes, it is delicious. Wonderful producer. Fruits are from 6 to 8 inches long and 4 to 6 inches in diameter. Shell hard and smooth, dark green with sometimes a blotch of red at pointed end. Will keep as long as the Hubbard. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

ZUCCHINI. 60 days. A well known Italian Marrow type. Fruits nearly cylindrical, straight. Color medium green, mottled with cream-gray and lighter green lace pattern and stripes; flesh firm and of delicate flavor. Suitable for quick freezing. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

DELICIOUS. 103 days. The standard of excellence in winter Squashes. Fruits broad top-shaped, commonly 7 to 8 inches long; skin very dark green, fairly smooth rind, thin but hard; flesh extremely thick, bright yellow, fine grained, dry, without fiber, of highest quality. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

GOLDEN DELICIOUS. 103 days. Valuable for canners because of high starch content and the bright red-orange color of the exterior. In shape and season practically the same as the original Delicious. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

BUTTERCUP. 110 days. Rind thin and tough, dark green with narrow gray stripes and slight mottling. Orange flesh cooks sweet and dry. A small, thick-fleshed Squash of good storage and eating qualities. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

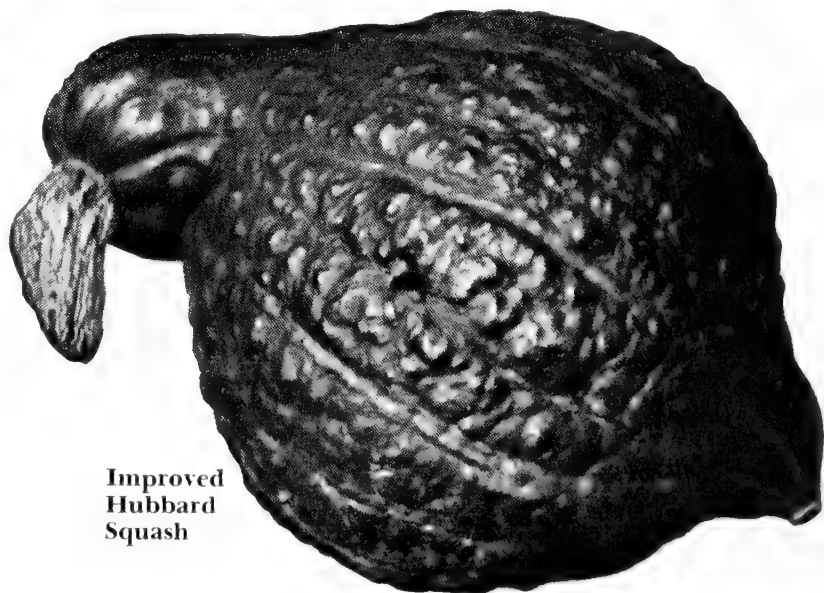
BUTTERNUT. 90 days. A recent introduction which has become very popular in the New England states. Fruits 10 to 12 inches long with neck of about 4 inches in diameter which is solid flesh; the seed cavity is located in the lower bowl-shaped end. Skin light creamy brown, flesh yellow, fine grained and of excellent quality. Matures early and is a good keeper. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

COCOZELLA DI NAPOLI. (Italian Vegetable Marrow.) 60 days. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

EARLY WHITE BUSH SCALLOP. 60 days. Very early summer Squash. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

EARLY YELLOW BUSH SCALLOP. 54 days. A true bush but larger than the above. Pkt. 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.

UCONN. 75 days. A recently introduced bush type Squash with acorn shape fruits, somewhat similar to Table Queen but smaller in size. Fruits when young are smooth, light green, becoming orange when over mature. Pkt., 10c; oz., 25c; ¼ lb., 85c; 1 lb., \$2.50, postpaid.

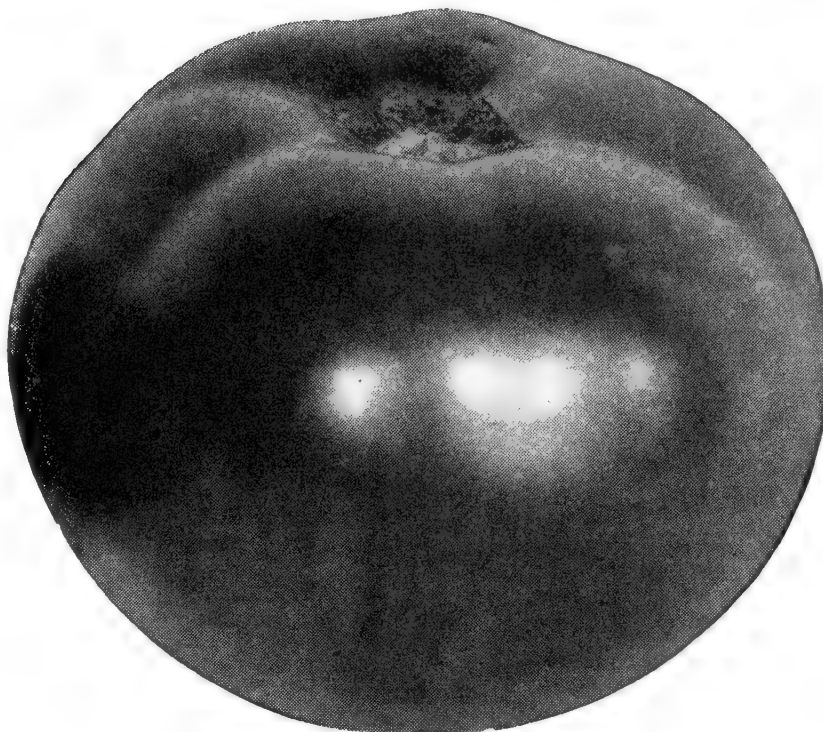


Improved
Hubbard
Squash

Forcing Varieties of Tomatoes

Grown in Greenhouses Everywhere

IDEAL FORCING. Is the result of crossing the Bonny Best with the Comet and is a heavy yielding variety. It has no unripe core, is dark red in color, not an acid fruit but of excellent quality. It is larger than the old Grand Rapids Forcing, now no longer in production. It is a splendid shipper. Surely this Tomato has a place in every greenhouse and will be a money maker. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.



Michigan State Forcing Tomato

MICHIGAN STATE FORCING. 75 days. An excellent greenhouse variety and a vigorous grower with dark green foliage. Especially attractive medium size fruits (4 to 5 ounces) are borne in clusters of five to eleven. Stem cavity is small, shallow and very smooth. Blossom end well rounded with a very small scar, the outer walls of fruit are thicker, and the firmness of the fruit makes it possible to allow them to ripen on the vine without loss to the grower. Many growers have in late years done remarkably well with this variety for outdoor growing and it is to be recommended. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

See page 31 for Spartan Hybrid and Northern Hybrid forcing Tomatoes.

Standard Varieties of Tomatoes

EARLIANA CERTIFIED. 64 days. The most productive, first early red Tomato and a profitable sort for the market gardener. Vines are small but vigorous, fruits medium to large in size, exceptionally smooth and solid; color bright deep scarlet. Pkt., 10c; oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

VICTOR. "All-America Selections." 65 days. Awarded Bronze Medal. This Tomato is a dwarf self-topping variety. It can be planted close, 5 feet by 3 feet. It sets fruit when other varieties fail. Is extra early, even ripening, with small vines. Color is uniform, scarlet and has a very noted smoothness of skin. A very solid Tomato that does not crack and is a good shipper. Pkt., 10c; oz., 90c; ¼ lb., \$2.70; 1 lb., \$8.00, postpaid.

VALIANT. 67 days. An early market variety. Vines sparse and open. The fruits, weighing about 8 ounces, are smooth, deep and brilliant scarlet in color. Pkt., 10c; oz., 70c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

BREAK O' DAY. 70 days. The earliest disease-resistant, scarlet-fruited, meaty Tomato yet introduced; 10 to 12 days earlier than Marglobe and very productive. Pkt., 10c; oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

GROTHEN'S GLOBE. 70 days. A much improved type over the Break o' Day, and while disease resistant the vines are heavier foliaged, growing large, upright, early, hardy and prolific. The fruit is bright red, large, globe shaped, firm, smooth and of good quality. Pkt., 10c; oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

EARLY BALTIMORE. Certified. 70 days. Selection of Marglobe, disease resistant, adapted to all soils. Fruit somewhat smaller, bright red color, and very prolific. Pkt., 10c; oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

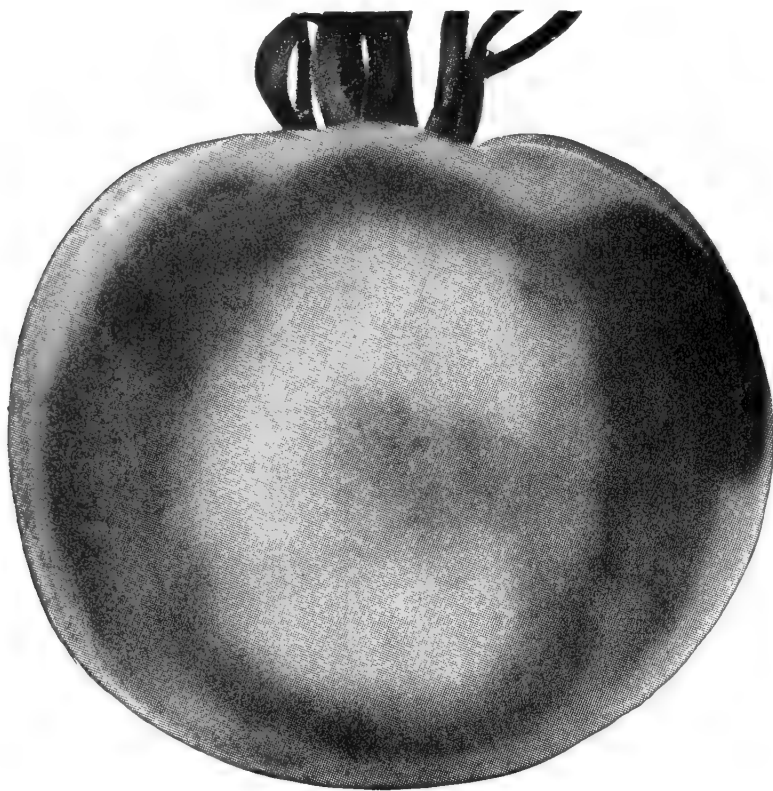
STOKESDALE. Certified. 70 days. A second-early scarlet fruited variety maturing about a week earlier than Marglobe. Plant rather open in habit with medium heavy foliage. Fruits large, globe or sub-globe, smooth and well colored. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

SCARLET DAWN. 70 days. A leading early variety for garden, shipping and canning. Plant of medium growth, fairly open, very prolific. Fruits medium large with thick wall structure, globular, smooth, free from flat sides, bright scarlet, ripening well to the stem, exceptionally attractive. Adapted to both field and greenhouse production. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

GOLDEN JUBILEE. 72 days. Short stemmed, sturdy and compact, bearing over a long period. Fruit golden yellow, globular, thick walled, of mild flavor and good quality. Medium size. Pkt., 10c; oz., 70c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

BONNY BEST. Certified. 73 days. Unexcelled as a general purpose Tomato; particularly valuable for forcing under glass as a canning variety in northern sections. Fruits evenly colored bright deep scarlet-red; medium large; flattened globe-shaped; smooth and firm. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

Turn to pages 30 and 31 for more Tomatoes



Pritchard or Scarlet Topper Tomato

TOMATO, STRAIN "B." 72 days from setting of plants in the field. A heavy-yielding variety selected for its exceptionally uniform production of large, smooth, attractive Tomatoes. Strain "B" produces attractive deep scarlet fruits that are deep-globe shaped, large and firm with thick walls. This variety has an indeterminate, vigorous and productive vine growth. The ability to produce good sized fruits over a long period makes it equally desirable as a market or canning variety. Compared with Rutgers, the fruits are slightly larger and somewhat earlier in maturing. Pkt., 10c; oz., \$2.25; ¼ lb., \$6.75; 1 lb., \$20.00, postpaid.

PRITCHARD or SCARLET TOPPER. Certified. 75 days. Very productive early sort. The splendid, globe-shaped, smooth fruits grow to a good size and attain an attractive bright red color. Flesh firm, mild flavored, free from acidity, with no core and small seed cavity. Plants grow compact and robust and produce a heavy crop when planted in good rich soil. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

WISCONSIN No. 55. (75 days from transplanting to first picking.) Plant vigorous, quite open, yet sufficiently dense to prevent much sun scalding, with considerable tolerance to blossom end rot and some tolerance to early blight. Fruit set moderately heavy. Fruit scarlet, slightly oblong, larger in size and weight than Stokesdale or John Baer and less liable to cracking. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$10.00, postpaid.

★**JOHN BAER.** Certified. 73 days. An early, productive, red Tomato, on the order of the Chalk's Jewel. Splendid producer. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

MARGLOBE. Certified. The Wilt and Nailhead Rust-Resistant Sort. 75 days. Was produced by crossing Livingston's Globe with one or more other varieties. It is a vigorous grower whether in greenhouse or field. A bright red in color, of large size, almost round, and very productive. It is very promising. Pkt., 10c; oz., 60c; ¼ lb., \$1.70; 1 lb., \$5.00, postpaid.

EARLY DETROIT or GULF STATE MARKET. 77 days. Particularly valuable for shipping. Fruits purplish pink, large and of uniform size. Globe-shaped, smooth and firm. Pkt., 10c; oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

EARLY RUTGERS. Certified. 73 days. This is an early strain and has a thick outer and inner wall of solid meat. Globe shaped, scarlet-red in color, resembling Marglobe. The Early Rutgers Tomato is in great demand for all purposes. Pkt., 10c; oz., 50c; ¼ lb., \$1.50; 1 lb., \$4.50, postpaid.

DWARF STONE. 81 days. The best of the dwarf Tomatoes. Fruits large, smooth, very solid, of a deep scarlet color. Pkt., 10c; oz., 75c; ¼ lb., \$2.35; 1 lb., \$7.00, postpaid.

GREATER BALTIMORE. Certified. 83 days. Second early and main crop variety. Deep scarlet-red in color, vigorous and very productive. Preferred by canners on account of its heavy yield. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

GARDEN STATE. Certified. 84 days. Developed from crosses involving Pritchard, Marvel and Pink Topper. Plant vigorous, partially resistant to fusarium wilt, and late blight; fruits slightly flattened globe shaped, attractive in color and size. Thick walled and mild flavored. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$10.00, postpaid.



DOW SURE SET plant growth control agent for improving the fruit set on field Tomatoes. Last season wonderful results were obtained in the field trials at Michigan State College. ½ pt. size (mix with 3 gals. water and spray the blossoms), \$1.75. 4-oz. bottle, 90c.



CERTIFIED John Baer Tomato

★This variety recommended by Michigan State College

NEW STONE. 85 days. The standard and general favorite with truckers and canners. Always dependable, very vigorous and productive; fruits round, large, solid, smooth, and deep red in color. Pkt., 10c; oz., 65c; ¼ lb., \$2.00; 1 lb., \$6.00, postpaid.

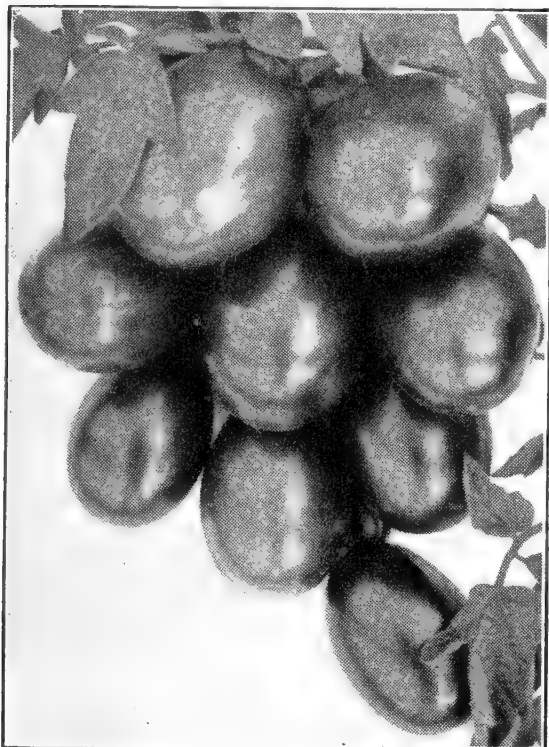
PONDEROSA. 85 days. A very large, purple-fruited Tomato; solid, with but few seeds, and no acid. Fine for slicing. Pkt., 10c; oz., \$1.00; ¼ lb., \$3.00; 1 lb., \$10.00, postpaid.

BEEFSTEAK. (Red Ponderosa.) 90 days. A wilt-resistant, large variety for home and market garden use. Plant is open in habit of growth, heavy. The fruit is large, flat, scarlet, rather smooth. Pkt., 10c; oz., 90c; ¼ lb., \$2.70; 1 lb., \$8.00, postpaid.

OXHEART. 90 days. An attractively pink-skinned variety. It is exceedingly smooth and tender and almost seedless. It has that delicious mild flavor. Rich soil adds greatly to its productiveness. A late variety. Pkt., 10c; oz., \$1.35; ¼ lb., \$4.00; 1 lb., \$12.00, postpaid.



Oxheart Tomato



Yellow Plum Tomatoes

STANTON GARDEN TOMATO. This new garden Tomato was developed by F. W. Stanton of Holland, Mich. During the entire life of the mother plant it has been fed special formula which gives the seed more vitality. This shows up in the strength of the plant in resisting disease and withstanding considerable drought. Growers report no sun scald during the summer of 1949. Plant spreads out to a maximum of 40 inches and holds the fruit off the ground. Foliage is moderate and covers the fruit very well. Fruits are globe-shaped, uniform in size, about 2½ to 3 inches in diameter. Mediums to dark red color, solid fruit, some with very few seeds. Sold only in sealed packets of true hand counted and tested for germination, as follows: 25 seeds, 25c; 100 seeds, 90c; 250 seeds, \$1.75; 500 seeds, \$3.00; 1000 seeds, \$5.00, postpaid.

SMALL FRUITED TOMATOES. Used for pickles, preserves, canning, etc. Easily grown and yield well. Yellow Plum, Red Pear, Yellow Pear and Red Cherry. Price of any of the four varieties: ¼ oz., 30c; oz., \$1.00, postpaid. Special: One packet of each of these four varieties for 50c, postpaid.

SEED TREATMENT PAYS

Treat your seeds with Semesan disinfectants and assure yourself of a crop.

Seed treatment pays no matter what kind of seed is treated. We handle a complete line.

Hybrid Tomatoes For Forcing

"Just a Little More of Everything"

Two important Hybrid Tomatoes, bred and grown by Mr. Roy H. Burghart, and introduced to the trade as a better and more vigorous Tomato that is more resistant to wilt and disease. They are ideal greenhouse forcing hybrids, and have "just a little more of everything" that is desirable in a Tomato. With increased production at a lower cost, we are able to offer these at lower prices, enabling greater distribution and a better crop at lower cost.

SPARTAN HYBRID. This is a cross between Michigan State Forcing and Cooper's Special, and is an excellent greenhouse hybrid, a week earlier than the parents and about 20 per cent more productive in weight and fruit. Color red, globular shape, medium size fruit, 5 to 6 ounces in weight, about three to pound; growing in clusters six to eight. A meaty Tomato, small seed cavity. Vine is more open, giving very uniform ripening of fruit. Being extra vigorous in growth, it is more resistant to both wilt and disease.

NORTHERN HYBRID. This is a cross between Michigan State Forcing and Sutton's Best of All, and is an ideal greenhouse hybrid for northern growing, especially in CANADA and northern United States. In productivity it is similar to Spartan Hybrid, but is more vigorous in growing, particularly in dark fall and winter weather which is prevalent in the North. Vine is open, permitting uniform ripening. Fruit is red in color, globular in shape, but is smaller, 4 to 5 ounces of solid fruit in clusters of ten to twelve. More resistant to wilt and disease on account of its vigorous growth.

Both of these hybrids are put up in sealed packets, **50 seeds, \$1.00; 100 seeds, \$1.50; 250 seeds, \$2.50; 500 seeds, \$4.00; 1000 seeds, \$7.50; 1/4 oz., \$12.50; 1/2 oz., \$20.00; oz., \$35.00, postpaid.**

All prices quoted herein are subject to change without notice.

Turnips

CULTURAL DIRECTIONS. One ounce to 150 feet of drill; one pound per acre. For main crop, sow in July or August. Sow either broadcast or in drills.

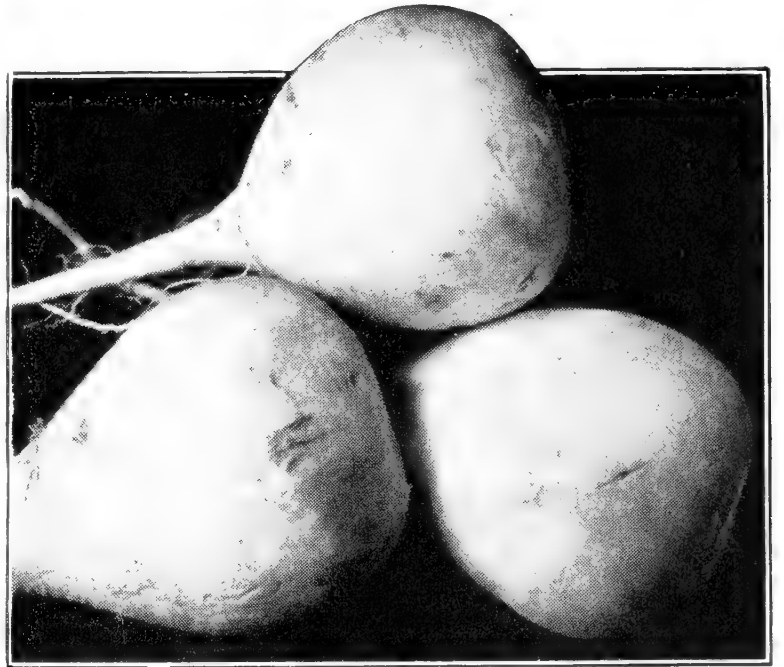
★**PURPLE TOP WHITE GLOBE.** 55 days. Not so early as White Egg, perfect globe in shape. Flesh and skin white, colored purple or red above ground. Very fine grained and sweet. The most attractive Turnip and best seller. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

EXTRA EARLY WHITE MILAN. 40 days. The earliest bulbs, small, clear white, and flat. One of the best for early bunching. Pkt., 10c; oz., 20c; ¼ lb., 50c; 1 lb., \$1.50, postpaid.



Yellow Globe Turnip

YELLOW GLOBE. 75 days. A round, smooth, light yellow variety of medium size and good quality. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.



White Egg Turnip

PURPLE TOP STRAP LEAVED. 45 days. A very early, flat variety, medium size; purple or red above ground and white below. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

GOLDEN BALL. 65 days. Tops small, roots medium size, round, smooth and deep yellow. Fine grained, flesh firm, crisp and sweet. Pkt. 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

WHITE EGG. 55 days. An early egg-shaped variety. Roots smooth, clear white. One of the best for market. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

COW HORN. 65 days. Roots long, slightly crooked; clear white. Often sown to plow under for fertilizer. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.

YELLOW ABERDEEN. 75 days. A late, medium sized, long keeping variety; roots round, yellow with a purple top, flesh tender. Pkt., 10c; oz., 15c; ¼ lb., 30c; 1 lb., \$1.00, postpaid.

SEVEN TOP. 45 days. For Turnip greens. Extremely hardy foliage Turnip for table or forage use. Crown sends up numerous shoots which are excellent for greens. Pkt., 10c; oz., 15c; ¼ lb., 35c; 1 lb., \$1.00, postpaid.



Purple Top White Globe Turnip

All Prices quoted herein are subject to change without notice

Tuberoses, Double

(Polianthes Tuberosa)

EXCELSIOR DWARF PEARL, DOUBLE. Easily recognized by its exquisite fragrance and beautiful flower spike; long stems, making it an ideal cut flower. Top size. 20c each; \$2.00 per doz., postpaid.

Begonias

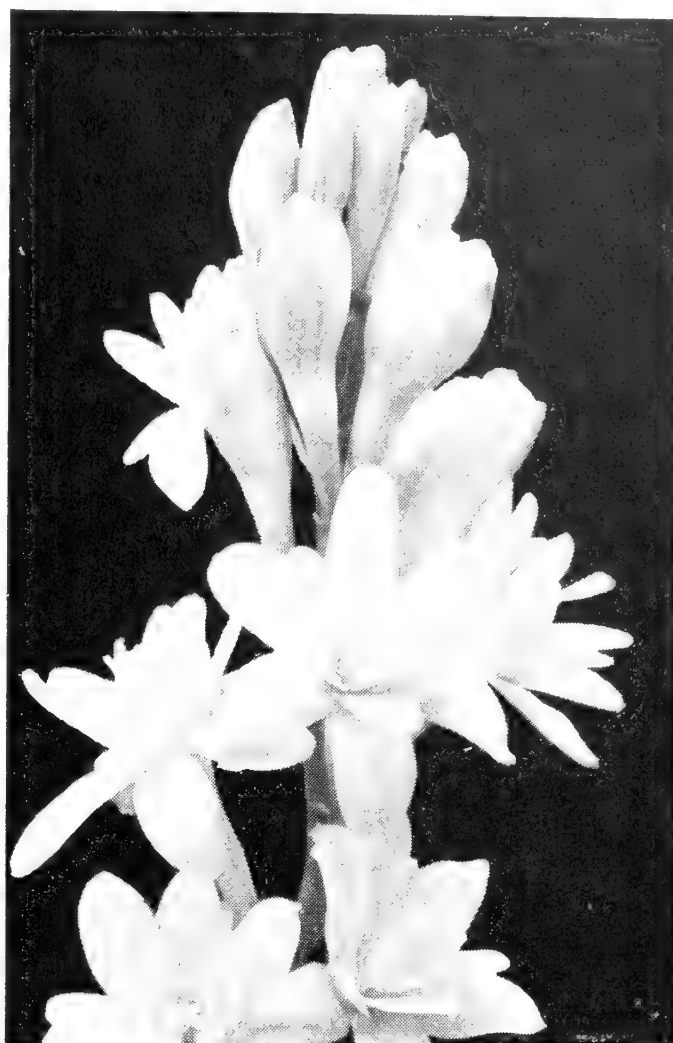
Tuberous-Rooted

Unexcelled for summer bedding.

CAMELLIA-FLOWERED DOUBLE. Crimson, copper, salmon, scarlet, yellow, orange, pink and white. Size 2 inches and up. Large size. Each 35c; 3 for \$1.00; 6 for \$2.00; 1 doz., \$4.00 postpaid. Kindly give the colors wanted.



Tuberous-Rooted Begonia



Tuberoses

Cannas

These new varieties with large flowers are unequalled for creating a colorful show from July till frost. They do best in full sun and respond quickly to feeding.

HUNGARIA. 3½ ft. Best pink Canna. Leaves bluish green, never burn. Flowers are large with big petals.

KING HUMBERT. 4 ft. Scarlet flowers; bronze leaves. A "Gold Medal" Sensation.

THE PRESIDENT. 4 ft. A rich, glowing scarlet on strong stalks; green foliage.

YELLOW KING HUMBERT. 4 ft. Foliage a very dark green; flowers deep rich yellow, softly spotted and blotched with bright red.

Prices on Any of the Above:

15c each; \$1.75 per doz., postpaid.



Cannas

Due to present rates of postage, and pending increases, please bear in mind that anything that is quoted "Not Postpaid" means that the postage will be extra, and in case of 10 lbs. of Peas, the mailing weight would be at least 12 or 13 lbs., on which the rates in force at time of ordering would prevail, but in any case, any money that is sent us additional, would be refunded immediately when order is filled, so be sure to include enough for postage. Present Parcel Post rates are given on page 3.

Gladiolus

OUTSTANDING VARIETIES

All large size bulbs, treated and free from disease.

60c per doz.; \$4.25 per 100.



Picardy

BAGDAD. Decorative. Large flowers and tall. A smoky old rose.

BEACON. Exhibition. Bright rose-scarlet with a large cream throat. Somewhat ruffled, tall and very showy.

BIT O' HEAVEN. Exhibition. Flaming orange with yellow throat.

★**EARLY ROSE.** Deep rose, one of the earliest to bloom.

★**GOLD DUST.** Very early, deep yellow.

MAID OF ORLEANS. Decorative. Milky white with cream throat.

MAUVE MAGIC. Long slender spikes of deep mauve.

★**PICARDY.** Exhibition. Delicate apricot-pink. Flowers are all extremely large and of heavy waxlike substance.

★**QUEEN OF BREMEN.** Decorative. Soft lavender-pink. Makes beautiful floral arrangements.

★**ROCKET** Exhibition. Flaming scarlet.

★**SNOW PRINCESS.** Exhibition. A very fine white of good size and form. Tall, with long flower spike and many open blooms that are always perfectly placed. Stems never crook. Mid-season.

Black Opal



75c per doz.; \$5.75 per 100.

ALGONQUIN. Exhibition. Early, brilliant glowing scarlet, 8 to 10 wide open ruffled, needlepoint blooms open on a tall, straight spike. Many people know this one as the best scarlet on the market.

ANNAMAE. Early, snowy white; reliable bloomer.

BLACK OPAL. Exhibition. Deep maroon-red.

CORONA. Exhibition. Cream-white shading more creamy toward the throat, with wide rose picotee edge on all petals. Very distinctive and beautiful. Six to eight very large, wide open blooms on a head of 18 buds. Tall grower and a fine propagator.

DR. WHITELEY. Large yellow-apricot or buff, tall stems.

★**ETHEL CAVE COLE.** Large, wide open florets of delicate pink; nice substance.

KING BEE. Exhibition. Beautiful salmon-scarlet with self flecks. Commands attention.

KING MIDAS. Nice golden yellow, lightly marked red deep in the throat.

JEANIE. Decorative. Beautiful, distinctive, large clear pink and white midribs and creamy throat. Tall, strong grower.

LADY JANE. Exhibition. Large cream, fine texture.

LANTANA. Large flowers in vivid orange shades.

MARGARET BEATON. Exhibition. Pure snow-white with small scarlet blotch in the throat. Flowers very large, on a long spike.

★**PURPLE SUPREME.** Exhibition. Tall, slender plant with well placed, bright purple blossoms.

RED LORY. Exhibition. Large carmine, rose-red blotch.

ROSA VAN LIMA. Exhibition. Light rose with darker lines in throat. Opens up to eight or more well placed blooms on tall, straight spike.

★**SILENTIUM.** Decorative. Pure white with rose blotch, plant grows tall and always straight with a slender willowy stem.

SPOTLIGHT. Decorative. Large, deep yellow, with red blotch. Florets are of large size and are perfectly placed. One of the finest that is grown.

VAGABOND PRINCE. Exhibition. Iridescent garnet-brown with a scarlet blotch. Most unusual, and is lovely arranged with scarlets.

★**WHITE GOLD.** Decorative. Very large clear light cream, shading to a lighter throat. Four to six huge blooms open on a long flower head.

Mixture of above varieties: 75c per doz.; \$5.50 per hundred.

★Starred varieties are among our Grand River Collection.

\$1.00 per doz., \$7.95 per 100.

BLUE BEAUTY. Exhibition. Light blue shading darker toward the edge.

BUCKEYE BRONZE. Decorative. Smoky bronze.

BURMA. Exhibition. Large ruffled, deep rose.

COVER GIRL. Tall, bright pink. Opens 10-12 blooms.

CRINKLE CREAM. Large ruffled pale yellow with a pale green throat.

ELIZABETH THE QUEEN. Exhibition. Giant ruffled lavender.

GENGHIS KHAN. Rich salmon, heavy substance and intensely ruffled.

HEAVENLY WHITE. Exhibition. White flushed with lavender.

HIGH FINANCE. Exhibition. Light smoky orange-gray with cream throat. A beautifully distinctive shade, and opens up to 9 lightly ruffled blooms with rolled back petals.

JOHANN VON KONYENBURG. Glowing orange-vermilion, large flowers.

Maid of Orleans

LAVENDER AND GOLD. Decorative. Lavender. Medium size.

LEADING LADY. Decorative. A cream-white, with canary-yellow throat. Real large. Similar to Picardy, except in color.

MAGNOLIA. Large flowers of light creamy rose.

MANSOER. Very deep blood-red with a blackish velvety glow.

MOHAWK. Exhibition. Large dark red.

ORANGE GOLD. Genuine orange self, smooth, tailored flower on tall stems.

ORIENTAL PEARL. Decorative. A massive cream colored, real large, 7 florets.

PANDORA. Clear, soft geranium-pink, with darker lines in throat.

RED CHARM. Exhibition. Very attractive shade of medium red. Fast becoming the most popular all-purpose red.

RED PLUSH. Huge early scarlet with a silky sheen.

SILVER WINGS. Heavily ruffled glistening white with a touch of cream in the throat.

Mixture of above varieties: \$1.00 per doz.; \$7.50 per 100.

ALL BULBS LISTED ARE SUBJECT TO THE 3% MICHIGAN STATE SALES TAX, and are postpaid anywhere in Michigan. Elsewhere, the postage will be extra, and as we cannot tell what the weight will be we would suggest that you send us enough, as any money that is not needed will be promptly refunded. See postal rates on page 3.

Something Choice

"A thing of beauty is a joy forever"

Our "Grand River Collection" of Gladiolus bulbs listed on the outside back cover of this catalog is really a "thing of beauty." It is a wonderful value, giving you 6 varieties of the 60c bulbs and 4 varieties of the 75c bulbs. A total of 100 bulbs for only \$4.00, postpaid anywhere in the state of Michigan.



Corona



Tulips, Hyacinths, Crocus, Daffodils, Narcissus for Fall Planting

These are imported bulbs from the Netherlands, and will not be available until September 15th, 1951, at which time we will be glad to quote prices on request.

Tulips, Darwin (Top Size)

CLARA BUTT. Clear salmon-pink with a white base flecked blue-gray. 26 inches tall. An old favorite.

GOLDEN AGE. Large, deep golden yellow, slightly shaded orange when fully developed. 26 inches tall. Fine shape.

INSURPASSABLE. Very large lilac with slightly lighter edges. A tall, strong stem. The best lilac. 28 inches tall.

LA TULIPE NOIRE. The black Tulip. Deep maroon-black. Definitely the closest to a real black. 26 inches tall.

NIPHETOS. Beautiful soft yellow, lemon-yellow inside with ivory anthers. Long flowers on a strong stem. 27 inches tall.

PRIDE OF HAARLEM. One of the best known and most popular varieties. Brilliant cerise-scarlet with a blue base. 28 inches tall.

PRINCESS ELIZABETH. Lovely soft rose-pink with lighter edges and a white base. Good forcing variety also 26 inches tall.

SCARLET BEAUTY. Beautiful, bright vermilion-scarlet with a dark blue base edged white. 26 inches tall.

THE BISHOP. Beautiful deep violet with a small, dull blue base edged white and purple anthers. 29 inches tall.

ZWANENBERG. Large pure white with black anthers. Tall stem. A very popular variety. 28 inches tall.

AS WELL AS MANY OTHERS



Hyacinths

Narcissus and Daffodils

(No. 1 bulbs)

KING ALFRED. Golden yellow. Broad perianth and a large trumpet frilled at the mouth. Popular. 16 inches.

MRS. E. H. KRELAGE. Pure white perianth and a creamy white trumpet recurving at the brim. 20 inches.

SPRING GLORY. Pure white perianth and a deep golden yellow trumpet, recurving at the mouth. 18 inches.

LAURENS KOSTER. (Poetaz). Creamy white perianth and a lemon-yellow center. Very fragrant. Several flowers on a stem. 14 inches.



Darwin Tulip

Hyacinths (17-18 cm.)

CITY OF HAARLEM. Large pure yellow. Compact blossom of fine form.

GRAND MAITRE. Deep lavender-blue. Very large spike.

LA VICTOIRE. Bright carmine-rose. Large spike and a very fine, sturdy stem.

L'INNOCENCE. Pure white. Large spike with large bells.

QUEEN OF THE PINKS. Bright rose-pink. Enormous, compact spike.

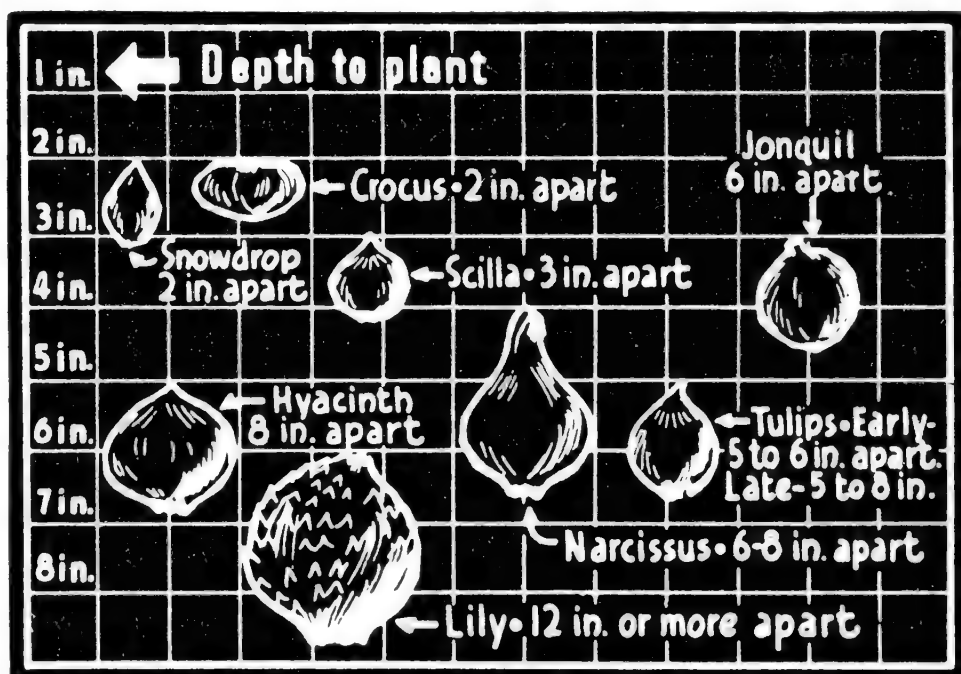
Crocus (Top Size)

KATHLEEN PARLOW. Large pure white with yellow anthers.

KING OF THE STRIPES. Large white with purple stripes.

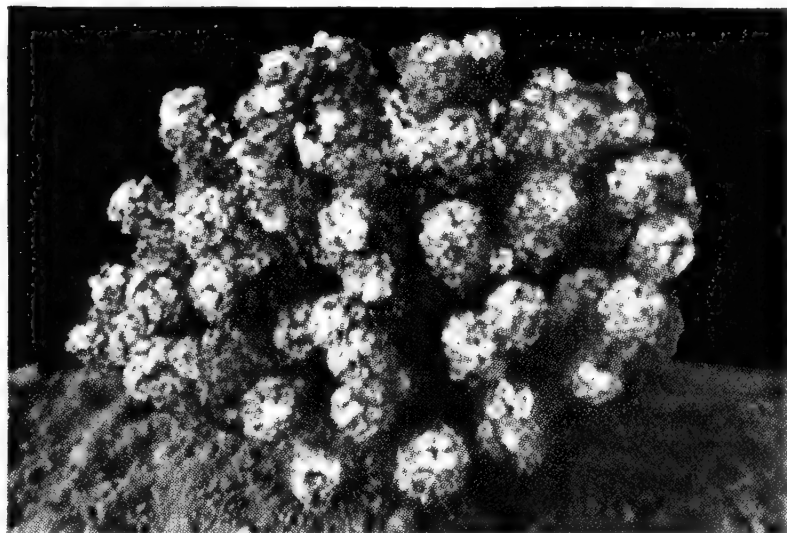
MAMMOTH YELLOW. Large golden yellow.

PURPUREA GRANDIFLORA. Rich, deep purple. Immense flowers.



ANNUAL FLOWERS

That Should Be In Everyone's Garden



ALYSSUM

Very popular border flower. Dwarf habit; blooming until killed by frost.

VIOLET QUEEN. Oz., \$1.15; 1/4 oz., 35c; pkt., 10c.

Little Gem and Carpet of Snow are fully listed on page 43.



COSMOS, MIXED

EARLY FLOWERING MAMMOTH MIXED. 4 ozs., \$1.35; oz., 45c; pkt., 10c.

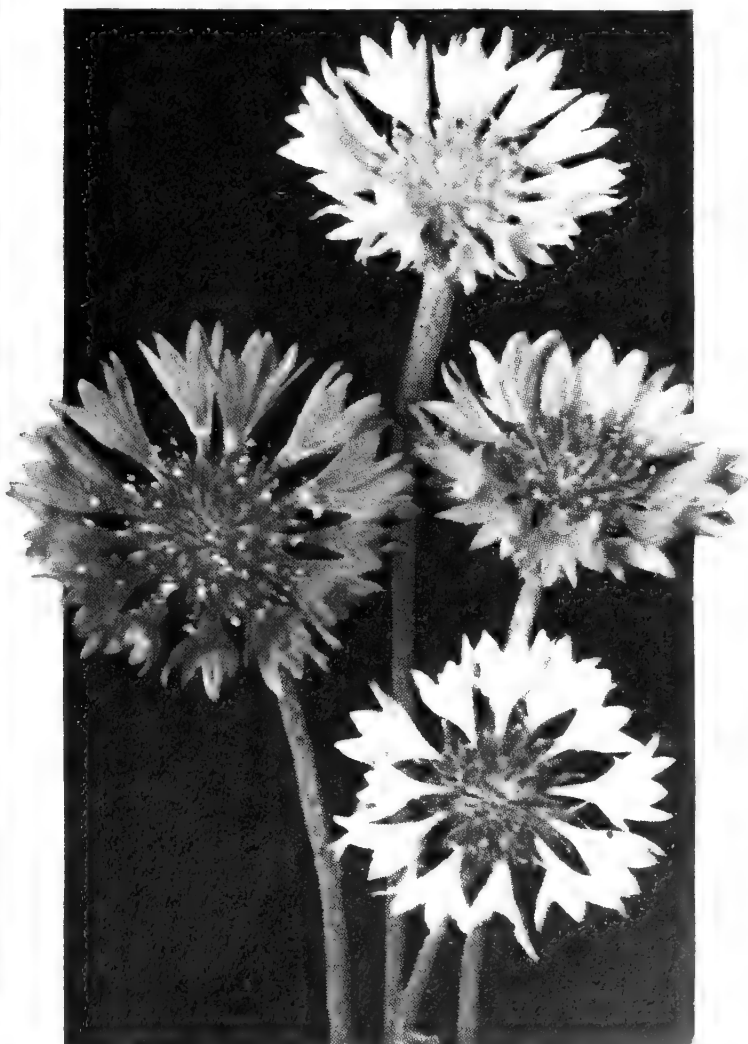
Both Klondyke, Orange Flare and Sensation are listed on page 46.



WILT-RESISTANT ASTERS

GIANT CREGO. The flowers are of immense size, usually from 4 to 5 inches in diameter and borne on stems 12 inches or more in length. See page 44. **Mixed, all colors,** 4 ozs., \$3.00; oz., \$1.00; 1/4 oz., 35c; pkt., 10c.

QUEEN OF THE MARKET. Best early Aster, usually in full bloom 2 weeks before most others begin to blossom. Graceful spreading habit. See page 44. **Mixed, all colors,** 4 ozs., \$3.50; oz., \$1.20; 1/4 oz., 30c; pkt., 10c.



BACHELOR'S BUTTON

A very popular annual that will always charm by its simple beauty. See page 44.

CYANUS MIXED. 4 ozs., \$1.50; oz., 50c; 1/4 oz., 15c; pkt., 10c.

JUBILEE GEM. Pkt., 10c.

RED BOY. Pkt., 10c.



Larkspur

VERBENA (A)

One of our trustworthy garden companions.
Mammoth Mixed. Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple. 4 ozs., \$4.00; 1 oz., \$1.35; 1/4 oz., 45c; pkt., 10c.

Listed on page 54.



Verbena

Garden Beauties

LARKSPUR (A)

The graceful spikes of blooms are much valued for vases. They continue long in bloom.

DOUBLE MIXED. All colors. 4 ozs., \$2.00; oz., 70c; 1/4 oz., 25c; pkt., 10c.

GIANT IMPERIAL MIXED. 3 ft. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate colors. 4 ozs., \$2.50; oz., 85c; 1/4 oz., 30c; pkt., 10c.

(See page 48)

ALL-AMERICA SELECTION 1951

SPECIAL! NEW!

TITHONIA (Torch Flower). A quick growing summer annual that thrives on hot weather, as easy to grow as a Zinnia. Brilliant orange-scarlet flowers resemble a Dahlia, borne on long, stout stems on a compact plant waist high. A cut flower for garden use, blooms cut in the bud will open and last several days. Subject to no pests or disease. Oz., \$5.00; 1/4 oz., \$1.75; pkt., 25c.



Tithonia,
Torch

MARIGOLD

HARMONY. 12 to 14 inch. An annual dwarf French Marigold having scabious-like flowers of deep orange with maroon collars of broad petals, crested centers. Usually free flowering and very early. 4 ozs., \$1.75; 1 oz., 60c; 1/4 oz., 20c; pkt., 10c.

Turn to page 48 for all others, as we have several others that are leading varieties that you may want to plant in your garden.



Marigold

Anyone Can Grow

PETUNIAS

The Petunia loves rich soil and thrives best in a sunny location. Pinch back freely. This causes the plant to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped. Our list on pages 49 and 50 gives full description of all the varieties.

Giants of California. Dwarf extra choice blend.

The Balcony or Trailing Varieties. Our Special Mixture of dwarf, small flowering varieties, which should be in every garden, as it is one maze of colors.

Celestial Rose

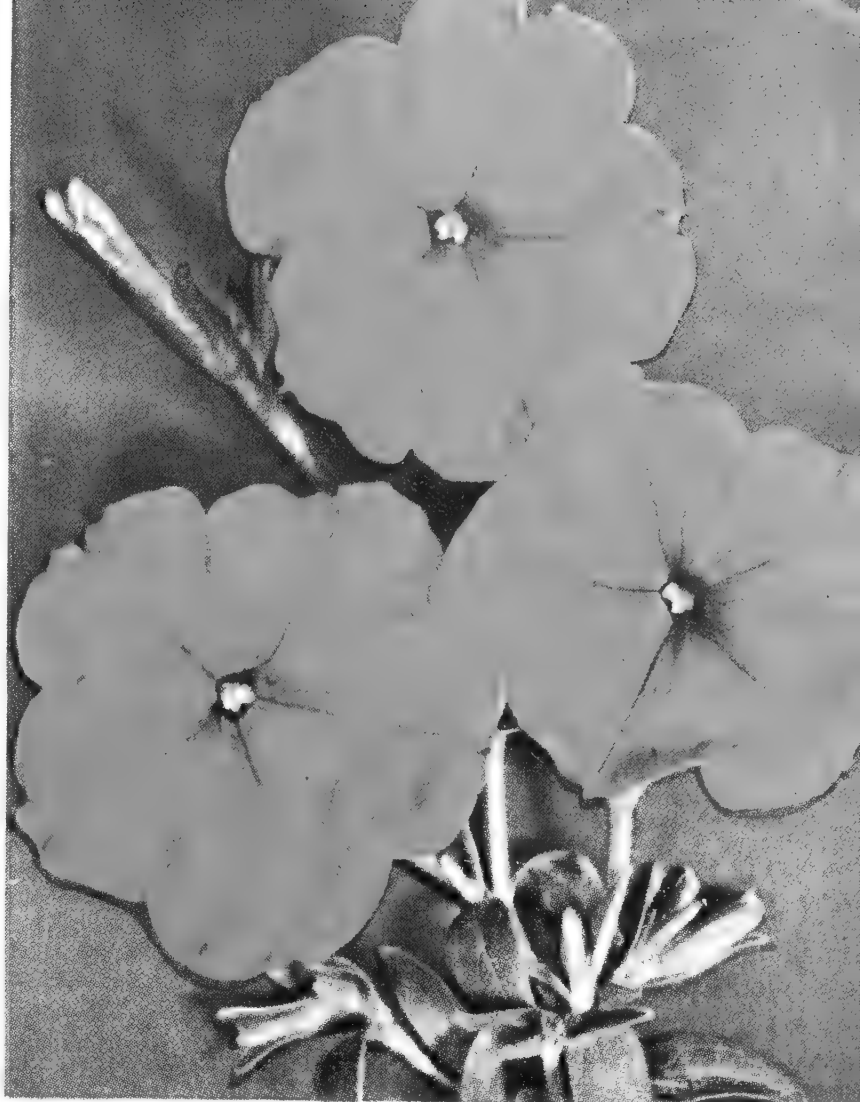
Rosy Morn

Rose of Heaven

Elk's Pride

Violacea—and many others.

FIRE CHIEF, illustrated to the right, is a firecracker-red, which is the best way to describe it. It's a new All-America selection which was given the rare "Gold Medal." 1 oz., \$20.00; 1/4 oz., \$6.75; pkt., 35c, postpaid.



Petunia, Fire Chief

POPPIES

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

SHIRLEY, SINGLE. Lovely and dainty shades, many edged and shaded with other colors. 1/4 oz., 15c; oz., 40c; pkt., 10c.

SHIRLEY, DOUBLE. Beautiful double satiny flowers in shades of white, pink and old rose with white centers. 1/4 oz., 15c; oz., 50c; pkt., 10c. See page 51.



Annual Poppies

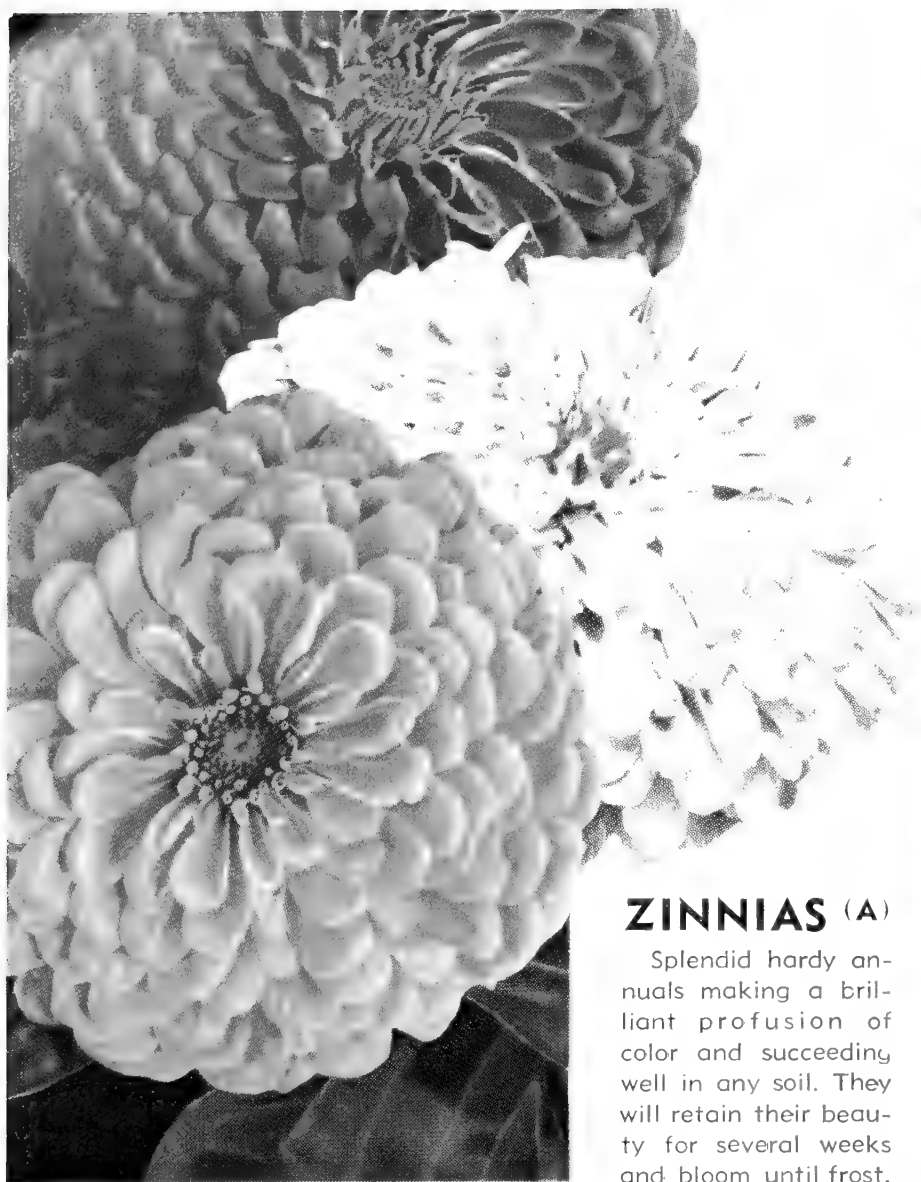
CALENDULA (POT MARIGOLD) (A)

RANGE KING. The outer petals are slightly imbricated, while those in the center are curved like those of the Peony. Color glowing orange. See page 44. 4 ozs., \$1.35; 1 oz., 45c; 1/4 oz., 15c; pkt., 10c.

THE BALL. It has fine stems, immense double flower of a brilliant glistening orange. A great favorite on the Chicago cut flower market. See page 44. 4 ozs., \$2.00; 1 oz., 70c; 1/4 oz., 25c; pkt., 10c.



Calendula



ZINNIAS (A)

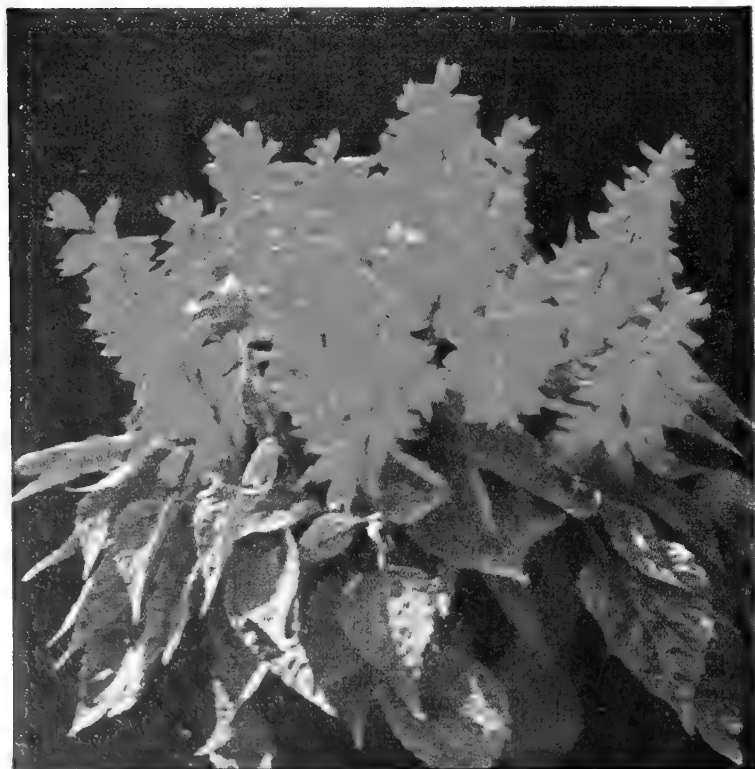
Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

Colossal or California Giant Flowered are gigantic in size; thickly set with velvety petals. **Lb.**, \$7.00; **4 ozs.**, \$2.50; **oz.**, 85c; **pkt.**, 10c.

The Pompon or Lilliput, Dahlia-flowered and **Fantasy** in mixed or straight colors are all listed on page 54.

SALVIA

A hedge or bed of Salvia is a blaze of color during late summer and fall, bloom in spikes and continuing to bloom until killed by frost. **Salvia Spendens, Bonfire, America, Blaze of Fire** and **St. Johns Fire** are all listed on page 51.



Salvia

Annual Flowers

That Should be in Everyone's Garden

RUST-PROOF SNAPDRAGON (ANTIRRHINUM) (A)

For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant, and are produced on immense long spikes, which render them well adapted for cut flowers. These strains are the finest obtainable.

DWARF MIXED. 4 ozs., \$6.75; 1 oz., \$2.25; 1/4 oz., 75c; **pkt.**, 10c.

TALL MIXED. 4 ozs., \$5.50; 1 oz., \$1.85; 1/4 oz., 60c; **pkt.**, 10c.

See full description of these as well as others on page 52.



Snapdragons

PHLOX (A)

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost and care.

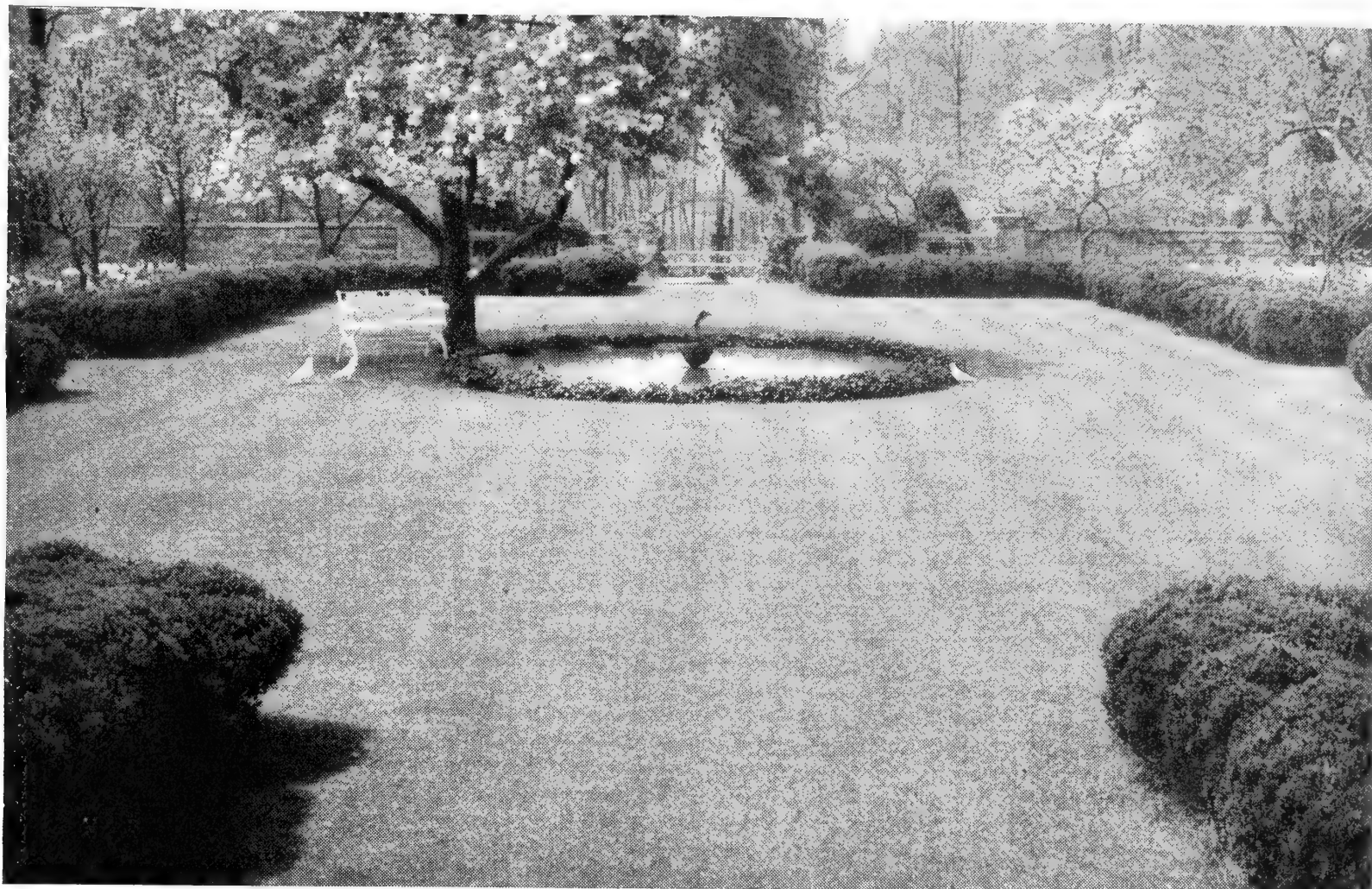
PHLOX DRUMMONDI. Unsurpassed for variety of colors. **Mixed.** **Oz.**, \$1.75; 1/4 **oz.**, 60c; **pkt.**, 10c.

See the others on page 50.



Annual Phlox

Making a Lawn and Its Care



Preparing the Soil

The most desirable soils for the lawn are the "loams", but if the soil available for the building of a lawn is a tight clay, sand should be added, or if a sandy loam, humus is needed, which would make it as nearly a loam as possible.

Even such simple tasks as spading are important and should be done with care. The depth of the surface soil largely determines the depth to which one should spade. If the top soil is six inches or less in thickness, work it to the depth of the surface soil. Never turn up the subsoil.

To get the best results from spading, each shovelful of soil is turned over and placed upon the edge of the hole away from the spader. It is then pulverized with a tap of the spade. This not only breaks up the mass, but carries the granulated soil back into the hole from which it was originally taken.

After the spaded soil has been pulverized, grade the soil to slope gently from the house. The grading will prevent water from standing around the foundation of the house. Next, level and roll until the seedbed is firm.

Applying Plant Food

When the seedbed has been completed, Vigoro, the complete balanced plant food, or Milorganite should be applied. The lawn is never so effectively fed as before the grass seed is sown. The plant food should be applied and spread evenly over the surface of the soil at the rate of 4 pounds per hundred square feet, and worked into the top few inches.

Sowing Seed

After the plant food has been worked into the soil, the seed should be spread uniformly over the surface at the rate of 4 or 5 pounds per one thousand square feet of soil. The seeding should be done by going in both directions to get an even distribution, both at the ends as well as the center of the throw.

A covering of clean straw or coarse cheesecloth on the steep slopes will help prevent washing which may occur before the grass becomes established.

Feeding

About 8 or 10 weeks after the lawn is seeded the young grass should again be fed with either Vigoro, the complete balanced plant food, or Milorganite. The application is made at the rate of 2 pounds per hundred square feet of lawn.

The plant food should be brushed from the grass with a broom or the back of a rake and the lawn should immediately be given a thorough soaking to wash the fertilizer from the grass and carry it into the soil. If the plant food is allowed to remain on the grass and moisture should reach it the result would be a burning of the tender leaves. To prevent this, a thorough watering is very essential.

Well-fed grass withstands the inroads of weeds and also resists injury from the attack of certain diseases, and by regular feeding with an application of Vigoro or Milorganite will reduce the amount of reseeding necessary. The greater development of the root system and the ability to store up reserves of food material, make well-fed grass able to withstand the extremes of either winter or summer weather and to maintain a dense turf year after year.

Special care must be given the lawn throughout the hot summer months, as Kentucky Blue Grass needs a resting period in mid-summer, and Red Top will grow most anywhere and has its resting period in the fall after the Kentucky Blue Grass has recovered. If excellent growth and vigor have been maintained during the spring, the lawn can be kept in a green vigorous condition during the summer, by careful watering, feeding and clipping.

At the approach of fall, lawns should again have a thorough application of either Vigoro or Milorganite, applied at the rate of 4 lbs. per hundred square feet, and the lawn should be thoroughly soaked, following the application, as stated above.

Care of the Lawn

Young grass should be allowed to grow three inches high before the first cutting, but on established lawns the grass should be cut quite short until the middle of May. Fertilize it well and try to get a complete ground cover, and after this has been accomplished, keep it cut as long as possible. Lower the wooden roller on your mower or better still, alter it or secure one that will cut three inches high. Plenty of leaf growth will shade the grass roots in hot weather and best of all, provide a laborless way of preventing weeds and crab grass from seeding, as weeds will not grow in a thick shady stand of grass and crab grass will not germinate even in semi-shade.

Whenever you are applying water to an established lawn be liberal with the amount used, as the water should penetrate 4 inches to do any good, and light sprinklings do injury—not good; they are about the worst treatment you can give your lawn.

It is best to water only once a week on clay soil, but it should be applied so that the water is quickly absorbed into the soil. Sandy soils dry out more quickly, and lighter and more frequent waterings are necessary.

Grade "A" Sunny Lawn Mixture

This is our own mixture, containing Kentucky Blue Grass, Fancy Red Top, Red Creeping Fescue, Chewings Fescue, Rye Grass, and 10% pure White Clover. Wonderful results are and have been obtained with this mixture. We use only the very best of seeds obtainable, of lasting value and hardiness, giving you a beautiful and permanent lawn that will last for years.

Grade "A" Shady Lawn Mixture

Contains Chewings Fescue, Poa Trivialis, Kentucky Blue Grass and Red Top. This mixture is our own, being mixed by ourselves especially for shady spots. We use only the very best seeds obtainable and as more care and attention is required we have used the hardier grasses, that will make a dense, thick growth in light soils and a satisfactory lawn in shady places or where sun is available only part of the time.

Inasmuch as we mix our own grass mixtures we have the individual grasses for those who want straight grasses in one spot or another.

KENTUCKY BLUE GRASS, JUNE GRASS. One of the best grasses for permanency. For lawns or pasture, it has no superior. Does well in any soil and stands the summer heat remarkably well. As it takes some time to become established, it is usually sown in mixtures.

RED TOP. A very hardy perennial grass, succeeding best on moist land. Valuable for lawn or pasture, and will produce large crops of good hay.

DOMESTIC RYE. An annual, coarser than blue grass, used extensively on banks and terraces.

ENGLISH or PERENNIAL RYE GRASS. A lawn grass where quick results are wanted.

WHITE CLOVER. (Dutch). A small, low growing variety. It is largely used in lawns and pastures. It makes a small, close, compact growth covering the ground like a carpet. Its blossoms are round, white and sweet scented, with leaves of bright green color.

POA TRIVIALIS. (Rough Stalked Meadow Grass). Closely related to Kentucky Blue Grass. Mostly used in shady places but will thrive in any soil.

CHEWINGS FESCUE. Valuable on sandy soil and in the shade. It is a perennial grass with a fine blade and spreading root system.

RED CREEPING FESCUE. One of the best Fescues obtainable. It spreads from the roots, making a dense turf which tends to crowd out weeds. Does well in shade and is good on sandy soil.

BENT GRASS. One of the most valuable lawn grasses. Exceptionally good for golf courses, greens, etc., because of its short growth and deep green, fine-leaved foliage. Requires very rich soil and plenty of moisture.

Mail Orders are Solicited and Prices Will be Quoted on Request.

Want a lawn
that IS a lawn?



Golf BRAND LAWN SEED



New .. Climate-Blend .. All Purpose

A blend of 11 perennial turf grasses—new Golf Brand is tailor-made for local growing conditions. Contains no rye grass or other short-lived fillers. Thrives in sun or shade, on slope or level. Seed treatment (with Du Pont fungicide) increases stands of grass 46%. **MAKES SEED GO FARTHER.**

Plant Golf Brand now—have a thick, velvety carpet of green this summer.

Fertilize with Golf Brand Turfood, 10-6-4 analysis. Prices on the above will be gladly quoted.

Flower Seed Department

We are convinced that many of the failures with flower seeds are due to lack of proper conditions, and while it would be impossible in the space at our disposal in this catalog to give explicit directions for each and every variety which we offer, we feel sure that if the general directions given below are followed, success will be the rule.

All of our flower seeds are listed by their common name in strict alphabetical order, together with the botanical name for your guidance.

Success With Flower Seeds

For all flower seeds which should be started indoors, the best plan is to sow in earthenware seed pans or boxes (about 2 inches deep) which should be filled to the depth of an inch with any rough material that will furnish perfect drainage. The upper inch should be nicely sifted soil, composed, if possible, of about one-third each of sand, leaf mould and light garden loam. Press firmly and evenly and water thoroughly the day before sowing. Sow the seeds thinly over the surface, cover about one-eighth of an inch and press firmly. When the seedlings are large enough to handle, they should be transplanted into similarly prepared boxes an inch apart each way, or put into small pots and kept in same until time to plant out in open ground. At all times they should have an abundance of air, otherwise the young seedlings are liable to "damp off."

For most of the ordinary annual flowers, the simplest method is to sow directly out-of-doors when danger of frost is past in the space where they are intended to flower. The ground should be dug and raked fine on the surface, sowing the seeds evenly and thinly, covering not over four times their size, and firming the soil over them. Should they come up too thickly, as most of them are likely to do, thin out so that the plants will stand from 4 to 12 inches apart, according to the variety.

How to Sow Flower Seeds

It will prove quite an advantage to mix all small seeds with sand or dry soil and scatter broadcast. This separates the seeds and is quite an advantage in thinning out or transplanting the young plants as those that remain are undisturbed. A common mistake in sowing flower seeds is covering too deeply. The exception to this is the Sweet Pea, which is seldom planted deep enough. As a general rule, cover small seeds only to the depth of the thickness of the seeds; always press the earth after sowing all flower seeds, else there is danger of their drying up before the roots can get firm hold of the soil. Seed of the hardier annuals may be sown where they are to grow; but as a rule, it is preferable to transplant, as the plants are generally stronger and stand the drought better. During very dry weather, and when the seedlings are first set out, they should be watered frequently.



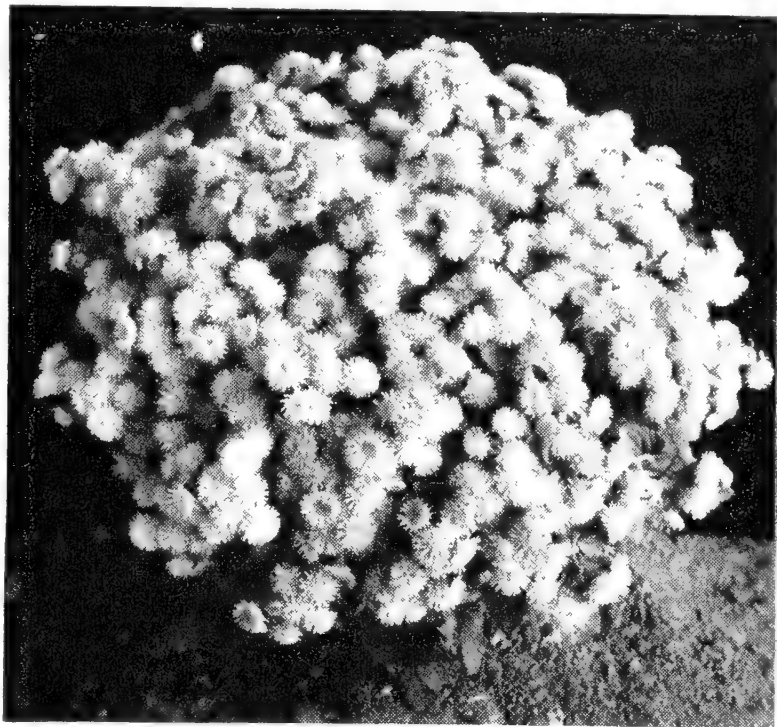
Alyssum Saxatile Compactum (Perennial)

The weeds should be kept down and the ground loosened often, so that the plants will receive the full benefit of the rains and dews, which they will not if the ground is allowed to become hard and baked.

Annuals are those flowers which bloom and die the same year; grown from seed exclusively.

Biennials bloom and die the second year from the seeding time.

Perennials grow the plant the first year but do not flower until the second year and then bloom every year.



Ageratum, Midget Blue

NUMBER OF SEEDS PER OUNCE UNDER ALL ITEMS ARE APPROXIMATE.

ABRONIA. (Sand Verbena). Pkt., 15c.

Ageratum (A) (FLOSSFLOWER)

(214,000 seeds per oz.)

One of the best summer blooming plants. They are rapid growers; early and constant bloomers.

MEXICANUM TALL. 18 inches. Beautiful, soft lavender-blue, of free branching habit. Pkt., 10c; ¼ oz., 30c.

BLUE CAP. Selected. 6 inches. Definitely more dwarf, more compact in habit with small leaves. Bright, deep, rich lavender-blue. Pkt., 10c; ¼ oz., \$1.20; 1 oz., \$3.50.

BLUE BEDDER. Dwarf. Pkt., 15c.

MIDGET BLUE. Dwarf, compact, rich blue. Pkt., 10c; ¼ oz., \$1.50; oz., \$5.00.

Alyssum (A) (SWEET ALYSSUM)

(60,000 seeds per oz.)

Very popular border flower. Dwarf habit, blooming until killed by frost. Fine for beds, borders and vases.

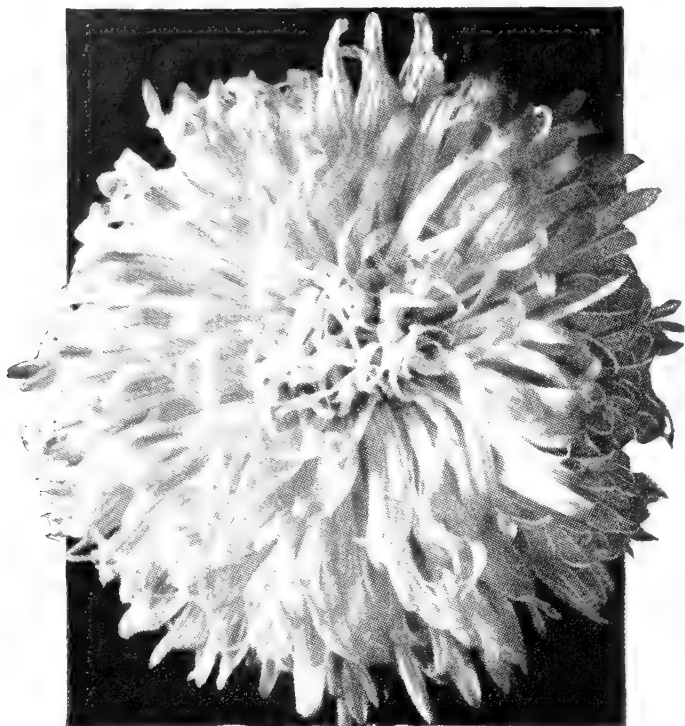
LITTLE GEM. Erect; white. Pkt., 10c; ¼ oz., 25c; 1 oz., 75c; 4 ozs., \$2.50.

VIOLET QUEEN. Pkt., 10c; ¼ oz., 35c; oz., \$1.15.

CARPET OF SNOW. Pkt., 10c; ¼ oz., 30c; 1 oz., 90c; 4 ozs., \$2.75.

Alyssum (P)

SAXATILE COMPACTUM. (Basket of Gold). 9 inches high. Blooms in May and June, producing masses of golden flowers very early. Pkt., 10c; ¼ oz., 30c; 1 oz., 90c.



Giant Crego Asters

ARCTOTIS, Large Flowered Hybrids. Pkt., 25c.
ANCHUSA ITALICA, Dropmore. Pkt., 15c.
ARABIS, Alpina. Pkt., 10c.
ARMERIA, Formosa Hybrids. Pkt., 25c.

Wilt-Resistant Asters (A)

(12,000 seeds per oz.)

GIANT CREGO. The flowers are of immense size, usually from 4 to 5 inches in diameter, and borne on stems 12 inches or more in length. Mixed colors. Pkt., 10c; 1/4 oz., 35c; 1 oz., \$1.00; 4 ozs., \$3.00.

QUEEN OF THE MARKET. Best early Aster, usually in full bloom two weeks before most others begin to blossom. Graceful spreading habit. Mixed, all colors. Pkt., 10c; 1/4 oz., 30c; 1 oz., \$1.20; 4 ozs., \$3.50.

AMERICAN BEAUTY. Late flowering. Mixed colors. Pkt., 10c; 1/4 oz., 70c; 1 oz., \$2.10; 4 ozs., \$6.50.

HEART OF FRANCE. Dark ruby-red variety; large double flowers, beautiful type. Most outstanding Aster. Pkt., 10c; 1/4 oz., 85c; 1 oz., \$2.60; 4 ozs., \$8.00.

GIANT CALIFORNIA SUNSHINE. Flowers large, with loosely placed outer petals contrasting with creamy yellow or blue centers, giving a lazy effect which is quite delightful. The rogues and off types bloom first and the Giant Sunshine later. Mixed colors. Pkt., 10c 1/4 oz., 70c.

GIANT BRANCHING. Mixed colors. Pkt., 10c; 1/4 oz., 30c; 1 oz., \$1.20; 4 ozs., \$3.50.

DOUBLE AMERICAN BRANCHING, Mixed. Pkt., 10c.

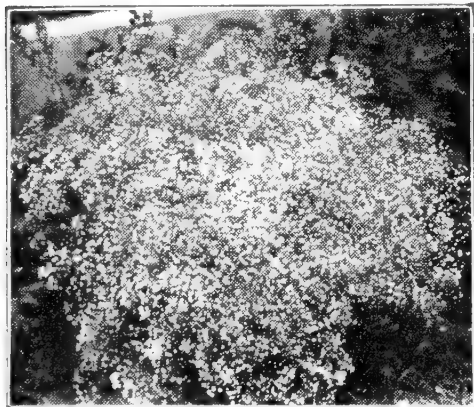
ACROCLINIUM. Double Mixed. Pkt., 15c.

Balsam (LADY SLIPPER) (A)

(2,400 seeds per oz.)

DOUBLE CAMELLIA-FLOWERED MIXED. An old and favorite garden flower, producing its gorgeous masses of beautiful, colored, double flowers in the greatest profusion. 1 1/2 to 2 feet. Pkt., 10c; 1/4 oz., 30c; 1 oz., 90c; 4 ozs., \$2.75.

BUSH MIXED. Pkt., 10c; 1/4 oz., 90c; 1 oz., \$2.75; 4 ozs., \$8.00.



Baby's Breath

BLUE LACE FLOWER. (A)
 Coeruleus. Blue. Pkt., 10c.

Baby's Breath

(GYPSOPHILA) (A)

(25,000 seeds per oz.)

Graceful plants of fairy-like growth. Large flowering, pure white, of free, easy growth. Much in demand for cutting and combining with other flowers for bouquets and vases. Several sowings should be made during the season to keep up the supply. Pkt., 10c; 1 oz., 35c; 4 ozs., \$1.00.

GYPSOPHILA (P) Panniculata. Double white. Pkt., 10c; 1/4 oz., \$1.00.



Calendula

Bachelor's Button

(8,000 seeds per oz.)

A very popular annual that will always charm by its simple beauty.

CYANUS MIXED. Pkt., 10c; 1/4 oz., 15c; 1 oz., 50c; 4 ozs., \$1.50.

JUBILEE GEM. Pkt., 10c.

RED BOY. Pkt., 10c.

Calendula (POT MARIGOLD) (A)

(15,000 seeds per oz.)

ORANGE KING. The outer petals are slightly imbricated, while those in the center are curved like those of the Peony. Color glowing orange. Pkt., 10c; 1/4 oz., 15c; 1 oz., 45c; 4 ozs., \$1.35.

THE BALL. It has fine stems, immense double flower of a brilliant glisteny orange. A great favorite on the Chicago cut flower market. Pkt., 10c; 1/4 oz., 25c; 1 oz., 70c; 4 ozs., \$2.00.

SUNSHINE. Pkt., 15c.

California Poppy (ESCHSCHOLTZIA) (A)

(15,000 seeds per oz.)

Valuable for growing in flower beds and masses. Sow where plants are to bloom. Bright showy flowers and feathered foliage. Good for cut flowers.

CALIFORNIA MIXED. Large flowers. Pkt., 10c; oz., 30c.

CALIFORNIA GOLDEN. Pkt., 10c; oz., 30c.

BUSH ESCHSCHOLTZIA. See Hunnemannia, page 48.



California Poppy



Candytuft, Giant Hyacinth Flowered

Canterbury Bells (CAMPANULA) (B)
(125,000 seeds per oz.)

This old-fashioned flower is a favorite with all, stately and showy and of the easiest growth. For best results seed should be sown every year.

SINGLE MIXED. Pkt., 10c; ¼ oz., 30c; oz., \$1.00.

DOUBLE MIXED. Pkt., 10c; ¼ oz., 35c; oz., \$1.10.

CALYCANTHEMA (Cup and Saucer). 2 ft. June to August. Mixed colors. Pkt., 10c; ¼ oz., 50c; oz., \$1.40.

Carnations (A)
(15,000 seeds per oz.)

Always in demand and not hard to grow, being hardy and free flowering. It is one of the most valuable of summer flowers.

MARGUERITE.
Double Mixed. Pkt., 10c; ¼ oz., 75c; 1 oz., \$2.25; 4 ozs., \$6.75.

CHABAUD GIANT MIXED.
Pkt., 10c; ¼ oz., \$1.10; 1 oz., \$3.35; 4 ozs., \$10.00.



Carnations

Castor Bean
(RICINUS) (A)
(30 seeds per oz.)

Decorative plant with fern-like foliage, giving to the garden a magnificent sub-tropical effect; even a single plant forms a pyramid of leaves.

ZANZIBARIENSIS. Leaves vary in color from light green to purplish red. Pkt., 10 seeds, 10c; 1 oz., 20c; ¼ lb., 60c; 1 lb., \$2.00.



Celosia, Tall Coxcomb

Calliopsis (TICKSEED) (A)
(100,000 seeds per oz.)

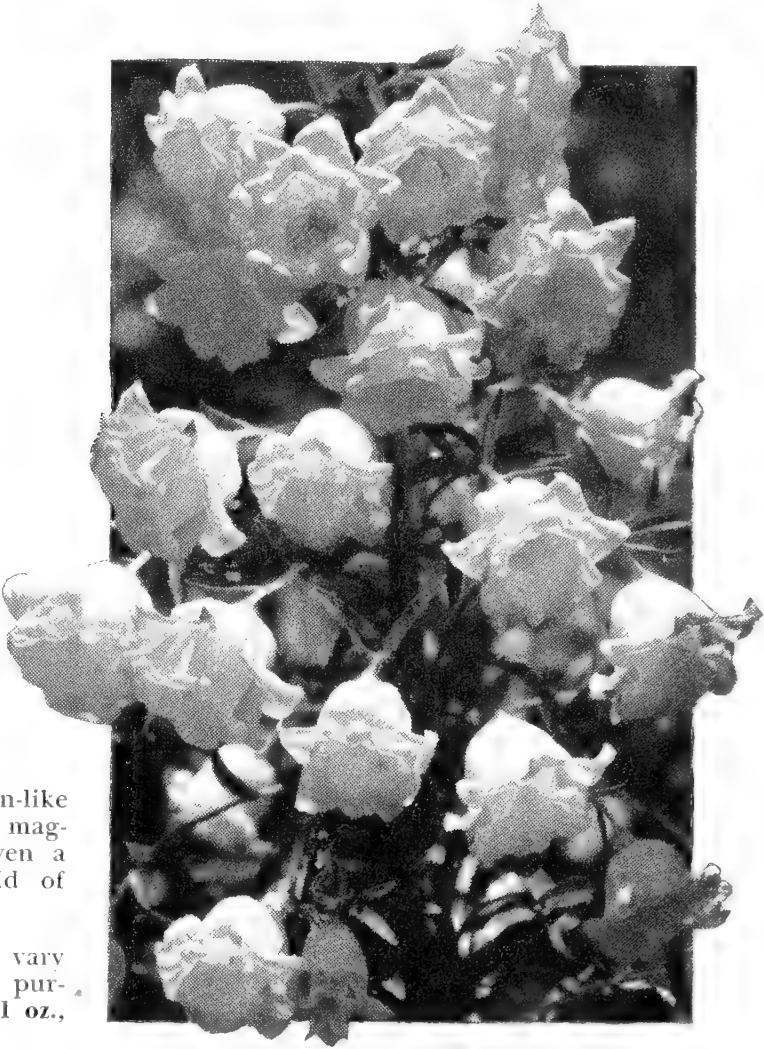
Very graceful border plants, supplying throughout summer an abundance of elegant, showy flowers which are greatly prized for bouquets and vases. Will thrive anywhere. 6 in. to 2 ft. Double mixed, all colors. Pkt., 10c; 1 oz., 60c.

Candytuft (A)
(10,000 seeds per oz.)

This is one of the most prized garden annuals. Easily grown from seed and does not need transplanting. Fine for cut flowers. Mixed pkt., 10c; ¼ oz., 20c; oz., 35c; 4 ozs., \$1.00.

GIANT HYACINTH FLOWERED. White. Pkt., 10c.

CARDINAL CLIMBER (A). Pkt., 15c.



Canterbury Bells, Calycanthema

Celosia (COXCOMB) (A)
(30,000 seeds per oz.)

Very popular annuals of easy culture, producing large, ornamental, comb-like heads like ruffled chenille. Prized for pots or summer flower beds.

TALL COCKSCOMB MIXED. 18 to 24 inches. Packets only. Pkt., 10c.

CHINESE WOOLFLOWER. (Celosia Childsi). Plants grow 2 to 3 ft. high, the bloom starting early with a central head, round and globular, which often reaches the immense size of 2 ft. in circumference. Scores of branches are thrown out, each bearing a ball of scarlet wool. Pkt., 10c; ¼ oz., 25c.

PLUMOSA, DWARF FIERY FEATHERED. Pkt., 15c.

FEATHERED, MIXED. Pkt., 10c.

CHINESE FORGET-ME-NOT. Firmament. Pkt., 10c.

Chrysanthemum

CARINATUM RAINBOW MIXTURE. A surprising blend of entirely new shades and color combinations in Annual Chrysanthemums. The very free flowering 2 feet high plants are early blooming, come into flower 2 months from the time of sowing; from June until September they give a truly amazing display.

Trade packet, 30c; 1/4 oz., 60c; 1 oz., \$2.00, postpaid.

CLARKIA, Double Mixed. Pkt., 10c.

CLEOME, Giant Pink Queen. Pkt., 10c.



Columbine — Aquilegia



Coreopsis

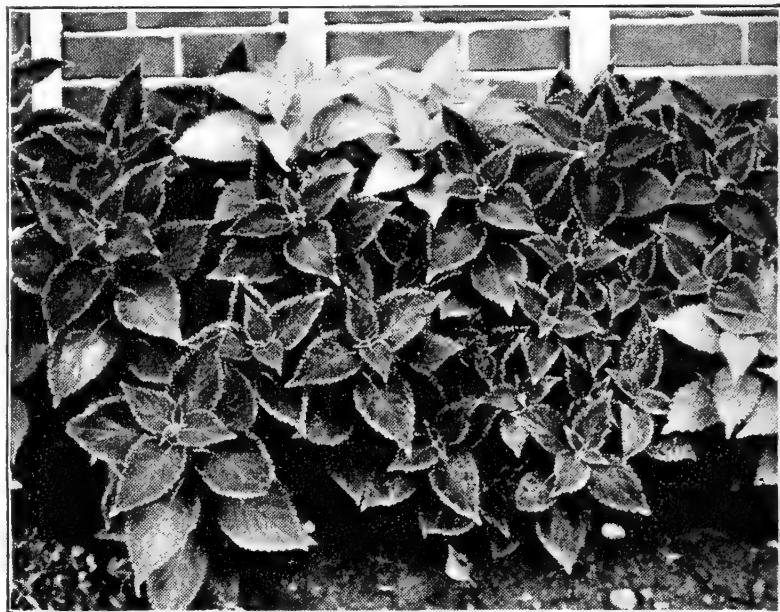
Cosmos (A)

(5,500 seeds per oz.)

KLONDYKE, ORANGE FLARE. Orange Flare will flower in the North in less than four months from seed and continue to grow and bloom with increasing freedom until killed by frost. As it is a tropical plant it should not be sown out-of-doors until the ground is warm. Give it full sun in the garden. Cut flowers should be taken when newly opened with low centers when they will keep several days in water. Pkt., 10c; 1/4 oz., 20c; 1 oz., 60c.

EARLY FLOWERING MAMMOTH, MIXED. Pkt., 10c; oz., 45c; 4 oz., \$1.35.

SENSATION MIXED. The most satisfactory class of Cosmos to grow for cut-flower purposes. Extra large-flowered, extra early. Pkt., 10c; 1 oz., 50c.



Coleus

Coleus

(FOLIAGE PLANTS) (A)
(3,500 seeds per 1/32 oz.)

Bedding plants, growing about 1 foot high. Their foliage is highly ornamental. Easy to raise from seed. Sow seed indoors. Extra large. **Rainbow Mixture.** Tr. pkt., 75c; 1/32 oz., \$1.80; 1/16 oz., \$3.25.

Columbine

(AQUILEGIA) (P)
(17,500 seeds per oz.)

This beautiful plant thrives in all kinds of soil; graceful foliage, flowers abundantly from early May until the last of June. **Mrs. Scott Elliott's Strain.** Pkt., 10c; 1/4 oz., \$1.70.

Coreopsis (P)

(12,000 seeds per oz.)

This is one of the finest of hardy plants, with large, showy, bright yellow flowers produced in the greatest abundance from June until frost. As cut flowers they stand near the head among hardy plants. Pkt., 10c; 1/4 oz., 15c; oz., 40c.

Cypress Vine (A)

For trailing upon a light ornamental trellis the Cypress Vine cannot be excelled. It has a profusion of scarlet or white star-shaped blossoms, and finely cut foliage. **Mixed.** Pkt., 15c.



Cosmos, Sensation

DAHLIA

UNWIN'S DWARF HYBRIDS. ¼ oz., 70c; 1 oz., \$2.50; 4 ozs., \$2.50.

Double Daisy

(BELLIS PERENNIS) (P)

(12,500 seeds per oz.)

A favorite low growing spring flowering plant. Loves a shady place and rich soil. 6-8 in. Double choice mixture. Pkt., 10c; ½ oz., 40c; ¼ oz., \$1.20; 1 oz., \$3.50.

PAINTED DAISY. See Pyrethrum, page 49.

Delphinium

(PERENNIAL LARKSPUR) (P)

(10,000 seeds per oz.)

PACIFIC GIANTS, MIXED. This new strain produces plants that are 60-65 per cent mildew resistant. The flowers are immense size, tightly set on straight stems. The flowers do not shatter and are fine for cut flowers. Pkt., 15c.

Forget-Me-Not

(MYOSOTIS) (B)

(42,000 seeds per oz.)

They are considered among the best spring flowers. They prefer moist, cool soil, and will bloom freely in fall and early spring.

VICTORIA. Sky-blue. Pkt., 10c; ¼ oz., 80c; 1 oz., \$2.50.



Four O'clock

Gaillardia

(BLANKET FLOWER) (A)

(15,000 seeds per oz.)

PICTA LORENZIANA. Double flowers, mixed colors. Pkt., 10c; ¼ oz., 30c.

Gaillardia (P)

Bloom from June to October. Their long flowering period, long stems and bright colors make these one of the most valuable perennials, being easily grown in beds and borders.

GRANDIFLORA. Mixed single. Pkt., 10c; ¼ oz., 30c.

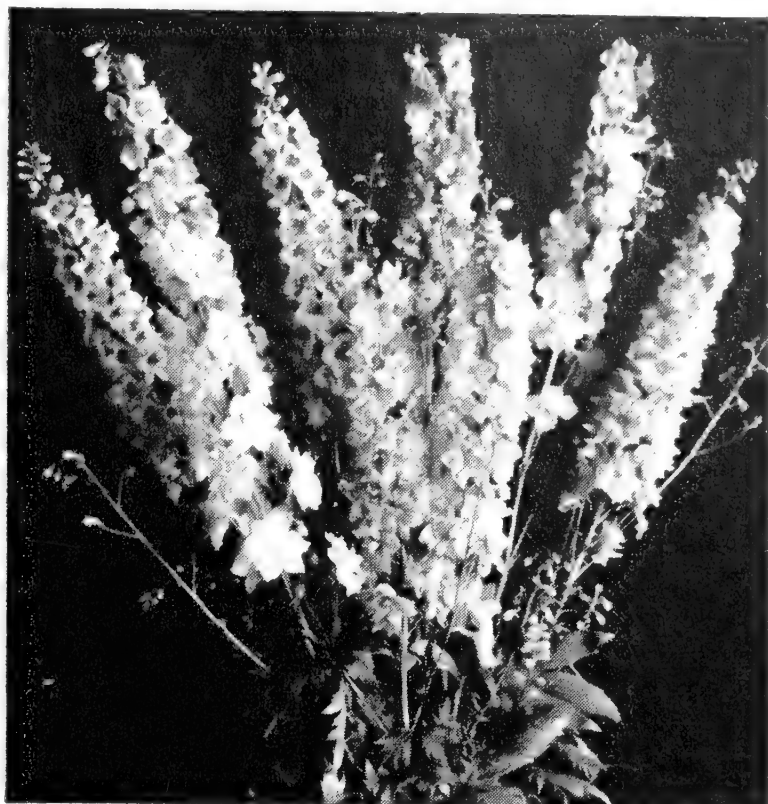
GEUM. Double Scarlet. Pkt., 15c.

GOURDS, Small Fruited Mixed. Pkt., 10c; oz., 30c.

HELIOTROPE. Dark varieties mixed. Pkt., 25c.

HESPERIS. Purple or white. Pkt., 15c.

HIBISCUS. Pkt., 15c.



Delphinium

Four O'clock

(MIRABILIS) (A)

(350 seeds per oz.)

MARVEL OF PERU. Mixed colors. Pkt., 10c; oz., 40c; ¼ lb., \$1.25.

Foxglove

(DIGITALIS) (B)

(200,000 seeds per oz.)

Bearing long spikes of beautifully colored flowers; fine for planting in hardy borders or among shrubbery. Mixed. Pkt., 10c; ¼ oz., 30c; oz., 80c.

Gladiolus

Our "Grand River Collection" of Gladiolus is fully listed on the outside back cover. For all the others see pages 34 and 35.

"A thing of beauty is a joy forever."



Gaillardia

Hollyhocks (P)

(3,800 seeds per oz.)

Make a fine row in the garden and an excellent background to cover a high wall or fence. 6 to 8 ft.

DOUBLE MIXED.

Double and semi-double. Pkt., 10c; ¼ oz., 25c.

HOLLYHOCK. Indian Spring. Pkt., 15c.

HUNNEMANNIA. Pkt., 15c.

ICELAND POPPY, Gartford Mixed. Pkt., 15c.

KOCHIA Childs. Pkt., 10c.

LANTANA. Pkt., 15c.

Larkspur (A)

(8,700 seeds per oz.)

The graceful spikes of blooms are much valued for vases. They continue long in bloom.

DOUBLE MIXED. All colors. Pkt., 10c; ¼ oz., 25c; 1 oz., 70c; 4 ozs., \$2.00.

GIANT IMPERIAL MIXED. 3 feet. Derives its name from the striking resemblance of the flowers to the Double Hyacinth. Delicate color. Pkt., 10c; ¼ oz., 30c; 1 oz., 85c; 4 ozs., \$2.50.

BRILLIANT ROSE. Pkt., 10c.

SUPER MAJESTIC MIXED. Pkt., 15c.

DEEP SALMON-PINK. Pkt., 15c.

BLUE SPIRE. Pkt., 10c.

MAJESTIC ROSE. Pkt., 15c.

LAVENDER. Pkt., 15c.

LOBELIA, Crystal Palace. Pkt., 25c.

LUNARIA, Biennis. Pkt., 25c.

LUPIN, Perennial Mixed. Pkt., 15c.

Marigold (TAGETES) (A)

(10,000 seeds per oz.)

SUNSET GIANTS. Huge flowers; colors range through orange, yellow and primrose. A tall variety and a beauty. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 4 ozs., \$3.50.

GUINEA GOLD. 2 to 2½ feet. An unusual type of Marigold, color orange flushed with gold. Nearly all flowers are double or semi-double and their odor is less pungent than that of other Marigolds. Pkt., 10c; ¼ oz., 20c; 1 oz., 70c; 4 ozs., \$2.00.

NAUGHTY MARIETTA. Uniform, semi-dwarf, bushy plants, vigorous, free blooming with 2-inch flowers of golden yellow, each petal having a mahogany base. Pkt., 10c; ¼ oz., 30c; 1 oz., 90c.

YELLOW SUPREME. A large, fluffy, well rounded bloom of delicate milk-honey fragrance, with broad, loose frilled petals of a rich, creamy lemon color. Plants practically free from objectionable Marigold odor. Pkt., 10c; ¼ oz., 30c; 1 oz., 90c; 4 ozs., \$2.70.

DOUBLE TALL AFRICAN. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 4 ozs., \$3.50.

DOUBLE DWARF FRENCH. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 4 ozs., \$3.50.

GOLD MEDAL BLEND. Pkt., 10c.

HARMONY. 12 to 14 inch. An annual dwarf French Marigold having scabious-like flowers of deep orange with maroon collars of broad petals, crested centers. Usually free flowering and very early. Pkt., 10c; ¼ oz., 20c; 1 oz., 60c; 4 ozs., \$1.75.

YELLOW PIGMY. Pkt., 10c; ¼ oz., 30c; 1 oz., \$1.00; 4 ozs., \$2.75.

FLASH. Single mahogany flowers with golden yellow margins on medium dwarf plants. Pkt., 10c; ¼ oz., 20c; 1 oz., 70c; 4 ozs., \$2.00.

SPRY. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 4 ozs., \$3.50.

BURPEE GOLD. Pkt., 15c.

MATTHIOLA. Pkt., 15c.

Mignonette (A)

(30,000 seeds per oz.)

MACHET. The best for all purposes. Of dwarf habit, with very large red flowers and handsome foliage. Pkt., 10c.

MOMORDICA, Mixed. Pkt., 15c.



Double Hollyhock



Mignonette

Morning Glory (IPOMOEA) (A)

(200 seeds per oz.)

Deservedly very popular as they are one of the most free flowering and rapid growing plants in cultivation; the beauty and delicacy of their brilliant flowers are unsurpassed. Soaking the seed in warm water for an hour or two hastens germination.

COMMON, MIXED. Pkt., 10c; oz., 25c.

ORIENTAL, MIXED. Pkt., 15c; oz., \$1.20.

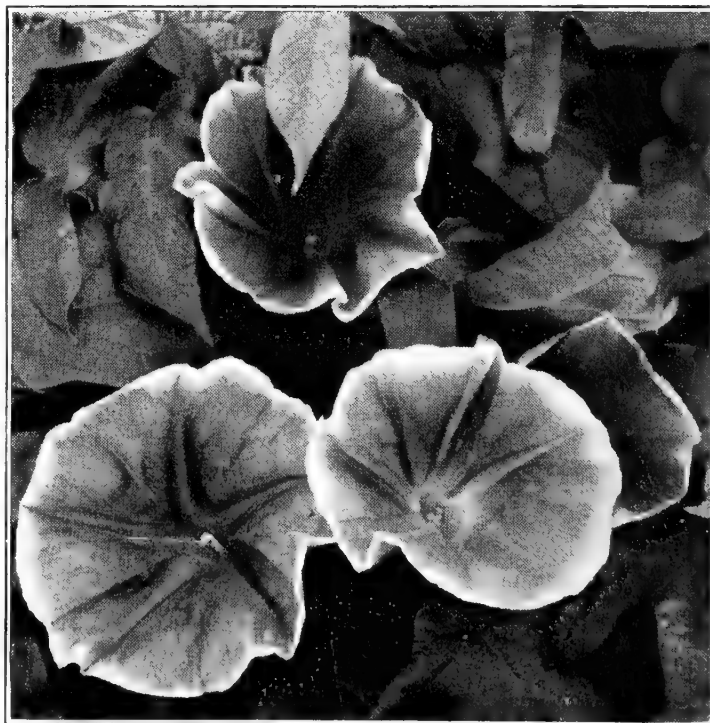
HEAVENLY BLUE. Pkt., 10c; oz., 60c.

SCARLETT O'HARA. Pkt., 15c; oz., 75c.

PEARLY GATES. Pkt., 15c; oz., \$1.35.

GIANT CORNELL. Red with white edge. The best red large flowered Morning Glory. Pkt., 15c. oz., \$1.20.

CRIMSON RAMBLER. Pkt., 10c.



Morning Glory, Giant Cornell

Nasturtiums (A)

For ease of culture, duration of bloom, brilliancy of coloring and general excellence, nothing excels them. All they need is a moderately good soil, in a well drained sunny position, and within a few weeks from the time they are sown until hard frost comes there is an endless profusion of blossoms.

DWARF, MIXED. Pkt., 10c; 1 oz., 20c; 4 ozs., 60c.

TALL, MIXED. Pkt., 10c; 1 oz., 20c; 4 ozs., 60c.

SCARLET GLEAM. Plain petaled and deep throated. This is a sweet scented variety similar to Golden Gleam. Pkt., 10c; 1 oz., 20c; 4 ozs., 60c.

GOLDEN GLEAM. An attractive, double-flowered, sweet-scented variety adapted to culture as bedding or pot plants. Also valuable for cut flowers. Pkt., 10c; 1 oz., 20c; 4 ozs., 60c.

DOUBLE GLORIOUS GLEAM HYBRIDS. These hybrids are a collection of gorgeously colored, large, well formed flowers of such dazzling beauty and colors as were never dreamed of before in a double Nasturtium. Mixed colors. Pkt., 10c; 1 oz., 20c; 4 ozs., 60c.

NEMESIA, Triumph Mixed. Pkt., 15c.

NICOTIANA, Evening Star. Pkt., 10c.

OENOTHERA, Primrose. Pkt., 15c.



Golden Gleam Nasturtium

Pyrethrum

(PAINTED DAISY) (P)

One of the most valuable of our early summer flowers. Charming colors and wonderful lasting properties as a cut flower. Flowers in May and June and frequently in August and September; in all shades of rose and pink. Height 1 to 2 feet.

ROSEUM. Single mixed. Pkt., 25c; 1/4 oz., \$2.25; 1 oz., \$6.50.

FIRE CHIEF PETUNIA. Firecracker-red is the best way we can describe the new All-America Selections rare Gold Medal variety. It is brand new for your 1951 garden. Pkt., 35c; 1/4 oz., \$6.75; oz., \$20.00.

Petunias (A)

(250,000 seeds per oz.)

The Petunia loves a rich soil and thrives best in a sunny location. Pinch back freely. This causes the plants to branch out and spread, shading the ground, thereby helping to conserve the moisture. Keep the faded flowers clipped.



Petunias, Giants of California

Single Giant Flowering Varieties

The flowers of this strain average five to seven inches across and are wonderful.

GIANTS OF CALIFORNIA, DWARF EXTRA CHOICE BLEND. Pkt., 50c; 1/16 oz., \$6.00; 1/8 oz., \$11.00; 1/4 oz., \$20.00.

GIANTS OF CALIFORNIA MIXED. The flowers are very large and the colors embrace every conceivable shade of crimson, white, violet, lavender, etc. Pkt., 50c; 1/16 oz., \$4.50; 1/8 oz., \$8.00; 1/4 oz., \$15.00.

Balcony or Trailing

(15 in.) To droop over the edge of a window box or to overhang a terrace, these are the best Petunias to select. In their several colors the single flowers are very gay either alone or in combination.

BALCONY BLACK PRINCE. Deep velvety mahogany-red, black throat. Pkt., 25c; 1/8 oz., \$1.00; 1/4 oz., \$1.85; 1 oz., \$6.75.

BALCONY BLUE. Deep violet-blue. Pkt., 15c; 1/4 oz., \$1.50; oz., \$4.50.

BALCONY ROSE. Vivid rosy pink. Pkt., 15c; 1/4 oz., \$1.50; oz., \$4.50.

BALCONY MIXED. Several colors. Pkt., 15c; 1/4 oz., \$1.20; oz., \$3.50.

SPECIAL MIXTURE OF DWARF SMALL-FLOWERING VARIETIES. Includes all the varieties listed and many others, and will be a revelation to those who plant a packet in furnishing an unending supply of flowers in a most bewildering combination of colors as long as the summer lasts. Pkt., 10c; 1/4 oz., \$1.00; oz., \$3.75.

CELESTIAL ROSE. An improvement on the Rosy Morn. More compact in growth and deeper in color. A beautiful rich satiny rose. Pkt., 10c; 1/8 oz., 90c; 1/4 oz., \$1.50; oz., \$5.00.

ROSY MORN SELECT. The plants are bushy and compact, flowers of medium size, produced in great abundance the entire summer and fall; are of a most pleasing clear pink, contrasted by a broad white throat. Splendid for porch boxes, pots, beds. Pkt., 10c; 1/4 oz., \$1.10; oz., \$3.25.

ROSE OF HEAVEN. Select rich rose. Pkt., 10c; 1/4 oz., \$1.10; oz., \$3.25.

ELKS PRIDE. (Royal Purple.) Flowers of extraordinary size, averaging 3 to 4 in. across. Superb single flowering of a rich velvety color, so much in demand for hanging baskets, porch boxes, etc. Pkt., 25c; 1/32 oz., \$2.25; 1/16 oz., \$4.00; 1/8 oz., \$7.50.

KING HENRY. Pkt., 25c; 1/16 oz., \$4.00; 1/8 oz., \$6.50; 1/4 oz., \$12.00.

VIOLACEA. Deep violet, compact. Pkt., 15c; 1/8 oz., 40c; 1/4 oz., 75c; oz., \$2.25.

SNOWSTORM. Improved. Pure white, compact. The best florist's white. Pkt., 50c; 1/64 oz., \$1.15; 1/32 oz., \$2.25; 1/16 oz., \$4.00.

Petunias—Continued

TOPAZ QUEEN. Scarlet-rose, compact. Pkt., 15c; 1/4 oz., 90c; 1/2 oz., \$1.60; 1 oz., \$3.00.

SILVER (HEAVENLY) BLUE. Pkt., 15c.

WHITE KING. Pkt., 10c.

GLOW. Pkt., 25c.

GIANT RUFFLED and FRINGED. Pkt., 50c.

DOUBLE FRINGED DWARF MAX. MIXED. Pkt., \$1.00.

MAX. DOUBLE FRINGED. MIXED. Pkt., \$1.00.

HOLLYWOOD STAR. Pkt., 25c.

ROSE KING IMPROVED. Pkt., 15c.

CREAM STAR. DWARF. Pkt., 15c.

FIRST LADY. DWARF. Pkt., 15c.

ROSE BEDDER. DWARF. Pkt., 15c.

MIDGET. MIXED. Pkt., 15c.

**Pinks (DIANTHUS) (A)**

(28,000 seeds per oz.)

DOUBLE. Selection of the best double Pinks in cultivation. Flowers ranging in color through all the brightest and most brilliant shades. Pkt., 10c; 1/4 oz., 25c; oz., 75c.

ALLWOODI. (P). 1 1/2-inch, single flowers in shades of pink. Pkt., 10c; 1/4 oz., \$1.50.



Garden Pinks



Phlox Drummondii

Phlox (A)

(18,000 seeds per oz.)

The annual Phloxes are dazzling in effect, particularly so when sown in masses or ribbon beds of contrasting colors. Few flowers are so easy to grow from seed, so pretty and compact in habit, so quick to bloom, or give such a brilliant display of color for so little cost or care.

PHLOX DRUMMONDI. Unsurpassed for variety of colors. Mixed. Pkt., 10c; 1/4 oz., 60c; oz., \$1.75.

SCARLET, LARGE FLOWERING. Pkt., 25c.

PHLOX DECUSSATA. (Perennial.) Pkt., 10c; 1/4 oz., \$1.00.

Oriental Poppies (P)

(448,000 seeds per oz.)

These should be sown in early spring in the open ground as soon as it is fit to work. The plants disappear during July and August appearing again as soon as the weather gets cool. It is well to mark the place with a stick so the roots will not be disturbed during the resting period. When the fall growth starts they should be transplanted to their permanent flowering quarters. Flowers of immense size, 6 inches and over, of many novel colors.

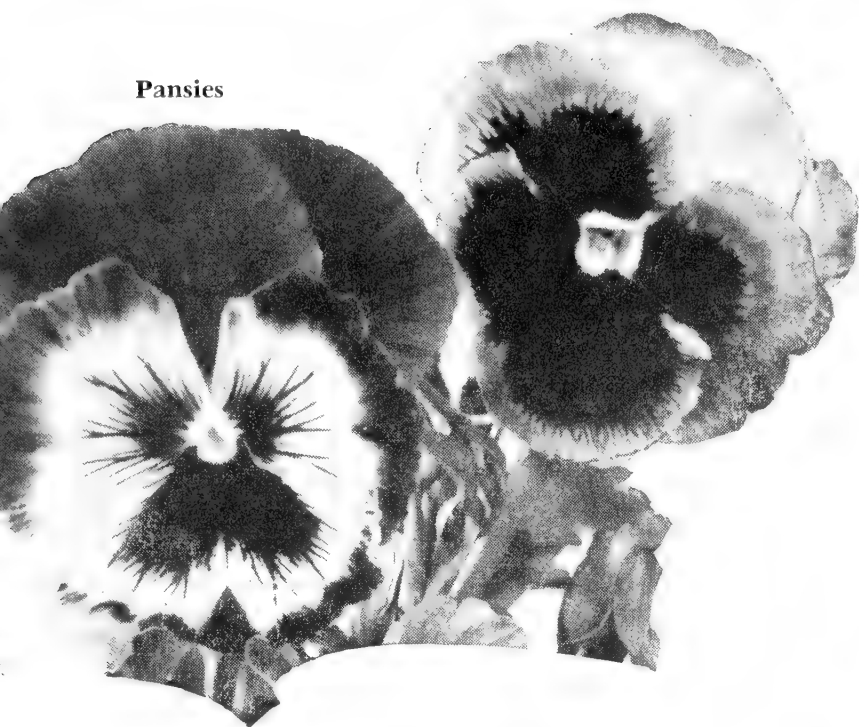
NEW MIXTURE. Pkt., 10c; 1/4 oz., \$1.15.

PRIMULA, New Baby. Pkt., 50c.



Oriental Poppies

Pansies



Pansies

(12,000 seeds per oz.)

They like a cool, moist soil and protection from the wind as well as the noon-day sun. Seed should be sown in the house and transplanted when danger of frost is over. For large flowers, early in the spring, the seed should be sown in August or September and the plants protected with a cold frame during the winter. May also be sown out-of-doors in the spring for late summer and fall flowers.

IMPROVED SWISS GIANTS. The flowers are of gigantic size, perfectly round, fine substance of flower and good form of plant. They bloom early in the spring, continuing in flower all summer until late in the fall. Pkt., 10c; 1/8 oz., \$1.75; 1/4 oz., \$3.00; oz., \$10.00; 4 ozs., \$30.00.

GIANT MIXTURE, DONOVAN STRAIN. Flowers very large, and great diversity of colors. This mixture contains all the good ones. Pkt., 10c; 1/4 oz., \$2.50; oz., \$9.00; 4 ozs., \$28.00.

PRIMROSE, Showy Evening. Pkt., 15c.

PRIMULA, Malacoides, New Baby. Pkt., 50c.

RANUNCULUS. Pkt., 25c.



Shirley Poppies

Poppies

(73,000 seeds per oz.)

Should be sown as early in the spring as possible, where they are to remain, as they will not stand transplanting. Sow very thinly; they must not stand nearer than 5 or 6 inches apart if you wish best results.

SHIRLEY, SINGLE. Lovely and dainty shades, many edged and shaded with other colors. Pkt., 10c; 1/4 oz., 15c; oz., 40c.

SHIRLEY DOUBLE. Beautiful double satiny flowers in shades of white, pink and old rose with white centers. Pkt., 10c; 1/4 oz., 15c; oz., 50c.

DOUBLE SHIRLEY, SWEET BRIAR. Pkt., 10c.

AMERICAN LEGION. Pkt., 10c.

Portulaca (ROSE MOSS) (A)

(300,000 seeds per oz.)

This plant will grow and bloom profusely in dry, hot situations, where almost any other plant would soon die. Easily transplanted. In sowing mix the seed with dry sand to insure an even distribution. Sow in May when the ground is thoroughly warmed, and soon the loveliest of floral carpets will appear.

BEST DOUBLE MIXTURE. Pkt., 10c; 1/4 oz., \$1.50; oz., \$4.25.

SINGLE MIXED. Pkt., 10c; 1/4 oz., 45c; oz., \$1.25.



Portulaca

Salvia (FLOWERING SAGE) (A)

(7,500 seeds per oz.)

A hedge or bed of Salvias is a blaze of color during late summer and fall, bloom in spikes and continuing to bloom until killed by hard frosts. Seed should be started indoors, sow about 1/4 inch deep; transplant when soil is well warmed, about 12 to 18 inches apart.

SPLENDENS. 2 1/2 ft. The well known variety, fiery scarlet. Pkt., 10c; 1/4 oz., \$2.25; oz., \$6.75; 4 ozs., \$20.00.

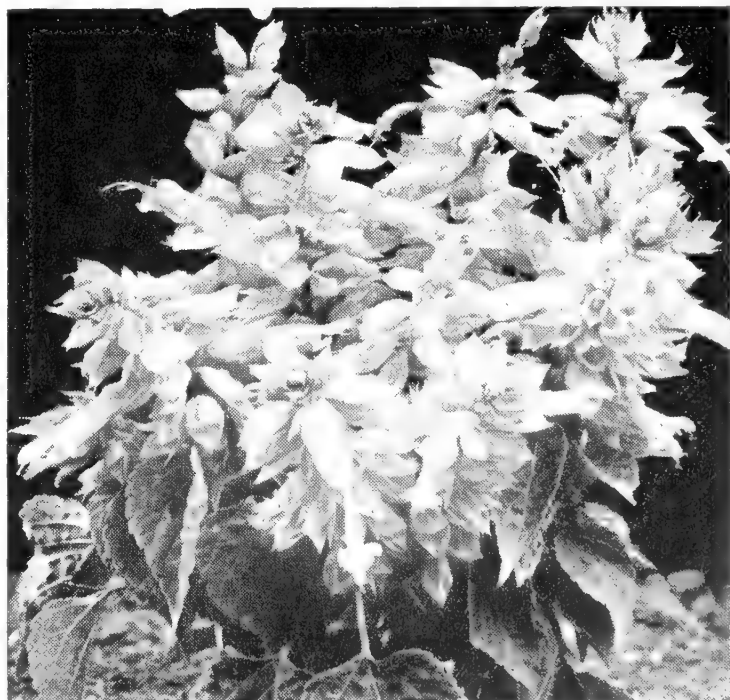
BONFIRE. 24 inches. Pkt., 10c; 1/4 oz., \$2.75; oz., \$8.00; 4 ozs., \$23.50.

AMERICA. 18 inches. Early Dwarf. Pkt., 10c; 1/4 oz., \$2.85; oz., \$8.50; 4 ozs., \$25.00.

FARINACEA. Blue Bedder. Tr. pkt., 35c; 1/4 oz., \$2.25; oz., \$6.75.

BLAZE OF FIRE. The standard extra early strain. 14 to 16 in. Pkt., 10c; 1/4 oz., \$3.50; 1 oz., \$10.00.

ST. JOHN'S FIRE. The earliest and most semi-dwarf available. About 12 inches high. Tr. pkt., 75c; 1/4 oz., \$2.50; 1/2 oz., \$4.25; oz., \$7.50.



Salvia, Fireball

Salpiglossis (A)

(125,000 seeds per oz.)

Undoubtedly one of the most attractive annuals and should be in every garden. The blossoms are tube-shaped, much like Petunia but rivaling the latter in the beautiful colors displayed. Nearly every flower is veined with a glint of gold. Flowers are large and last well in water, really better than on the plants. **Large Flowering Mixed.** Pkt., 10c ¼ oz., 30c; oz., 90c.

Scarlet Runner (A)

(30 seeds per oz.)

A very rapid grower, bearing sprays of bright scarlet, pea-like flowers from early summer to late fall. Pkt., 10c; oz., 20c; ¼ lb., 60c.

Shasta Daisy (P)

(CHRYSANTHEMUM LEUCANTHEMUM)

(18,000 seeds per oz.)

Grows very bushy, bearing all summer a profusion of immense white flowers on long stems. Pkt., 10c; ¼ oz., 30c; oz., 90c.

Scabiosa (A)

(Mourning Bride)

(3,500 seeds per oz.)

GRANDIFLORA MIXED. Our latest special mixture and we are sure the delicate soft colors will be admired by all our friends. Pkt., 10c; ¼ oz., 20c; oz., 60c; 4 ozs., \$2.00.

BLUE MOON. Pkt., 10c.**CAUCASICA.** Lavender-blue. Pkt., 50c.**SCHIZANTHUS, Dr. Badger.** Pkt., 25c.**SENSITIVE PLANT.** Pkt., 15c.**Stocks (A)**

(19,000 seeds per oz.)

TEN WEEKS LARGE FLOWERING. The favorite sort for bedding. Grows about 1 ft. high. Mixed, all colors, pkt., 10c; ¼ oz., 60c; 1 oz., \$1.85; 4 ozs., \$5.50.

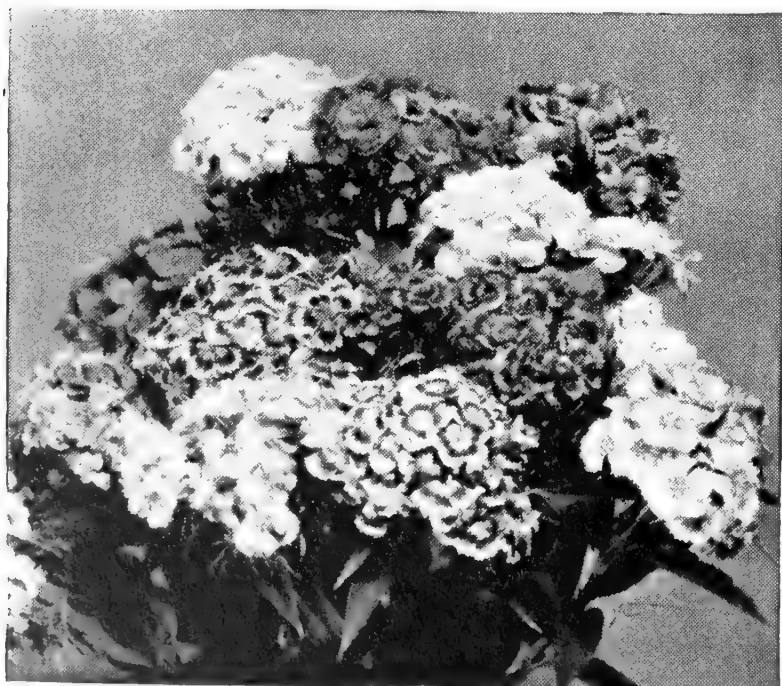
MAMMOTH BEAUTY OF NICE. Mixed. Pkt., 10c.**GIANT IMPERIAL CRIMSON.** Pkt., 15c.**GIANT IMPERIAL PURPLE.** Pkt., 15c.**GIANT IMPERIAL ROSE.** Pkt., 15c.**GIANT IMPERIAL GOLDEN ROSE.** Pkt., 15c.**Strawflower (A)**

(HELICHRYSUM)

(45,000 seeds per oz.)

An ornament to the garden when growing, and are prized everywhere for the winter decoration of vases, and for durable bouquets. Flowers intended for drying should be gathered when partially unfolded and suspended with their heads downward in a cool place.

MIXED, ALL COLORS. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 4 ozs., \$3.50.

SWEET SULTAN. Mixed. Pkt., 10c.

Sweet William

Rust-Proof Snapdragon

(ANTIRRHINUM)

(220,000 seeds per oz.)

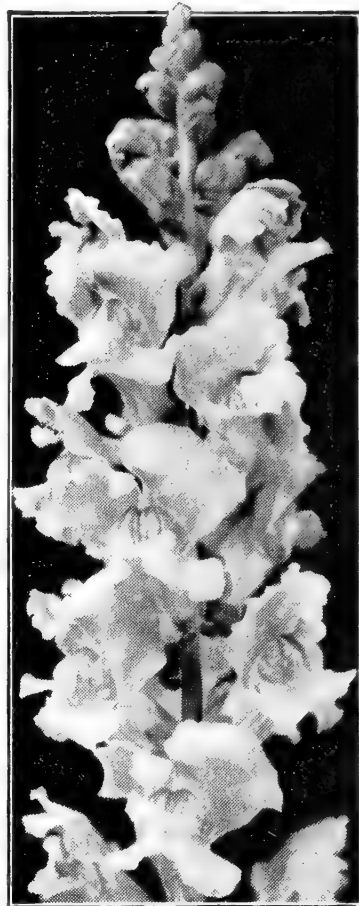
For gorgeous coloring few flowers can match Snapdragons. The flowers are of very large size, very fragrant, and are produced on immense long spikes, which render them well adapted for cut flowers. These strains are the finest obtainable.

DWARF MIXED. Pkt., 10c; ¼ oz., 75c; 1 oz., \$2.25; 4 ozs., \$6.75.

TALL MIXED. Pkt., 10c; ¼ oz., 60c; 1 oz., \$1.85; 4 ozs., \$5.50.

TETRAPLOID SUPERFINE MIXTURE. (Tetra Snap.)

The most satisfactory outdoor Snapdragon offered today. Plants tall, husky and erect, with huge ruffled florets and long spikes. The outstanding variety for plant growers. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 1 oz., \$3.50.



Snapdragon

GIANT BEDDING PINK.

R. R. Pkt., 25c.

GIANT BEDDING WHITE. R. R. Pkt., 25c.**GIANT BEDDING YELLOW.** R. R. Pkt., 25c.**GIANT BEDDING MIXED.** R. R. Pkt., 15c.**Sunflower (A)**

(HELIANTHUS)

(700 seeds per oz.)

Of easiest culture. Suitable for backgrounds, screens, and to plant among shrubbery. It blooms from June till frost. 3 to 6 feet.

DOUBLE CHRYSANTHEMUM-FLOWERED. Large, golden yellow flowers, resembling a Chrysanthemum. Pkt., 10c; oz., 40c.

RED and GOLD. Pkt., 15c.**SNOW-ON-THE-MOUNTAIN.** Pkt., 15c.**STATICE.** Mixed. Pkt., 15c.**Sweet William (P)**

(31,000 seeds per oz.)

This sturdy, reliable, old-fashioned favorite is still a source of delight in the garden of today. Seed may be sown at any time from spring to midsummer. The charm of the great trusses of lovely color seems to be lost when it is planted as a mixture in masses. It is best if you give slight protection during the winter. It likes warm, rich soil. 2 feet.

SINGLE, FINEST MIXED. A very choice assortment of all the best single flowered varieties. Pkt., 10c; ¼ oz., 30c; oz., 85c; 4 ozs., \$2.50.

DOUBLE MIXED. This mixture you will find of superior quality, containing all colors and shades. Pkt., 10c; ¼ oz., 40c; 1 oz., \$1.20; 4 ozs., \$3.50.

SINGLE EARLY FLOWERING. Dwarf Midget Mixed. 6 inches. A dwarf variety ideally adapted for early flowering, and for the perennial border as well as pot plants. Pkt., 10c; ¼ oz., \$1.50; 1 oz., \$4.50.

SWEET WIVELSFIELD. Pkt., 15c.

Beautiful Sweet Peas

(340 seeds per oz.)

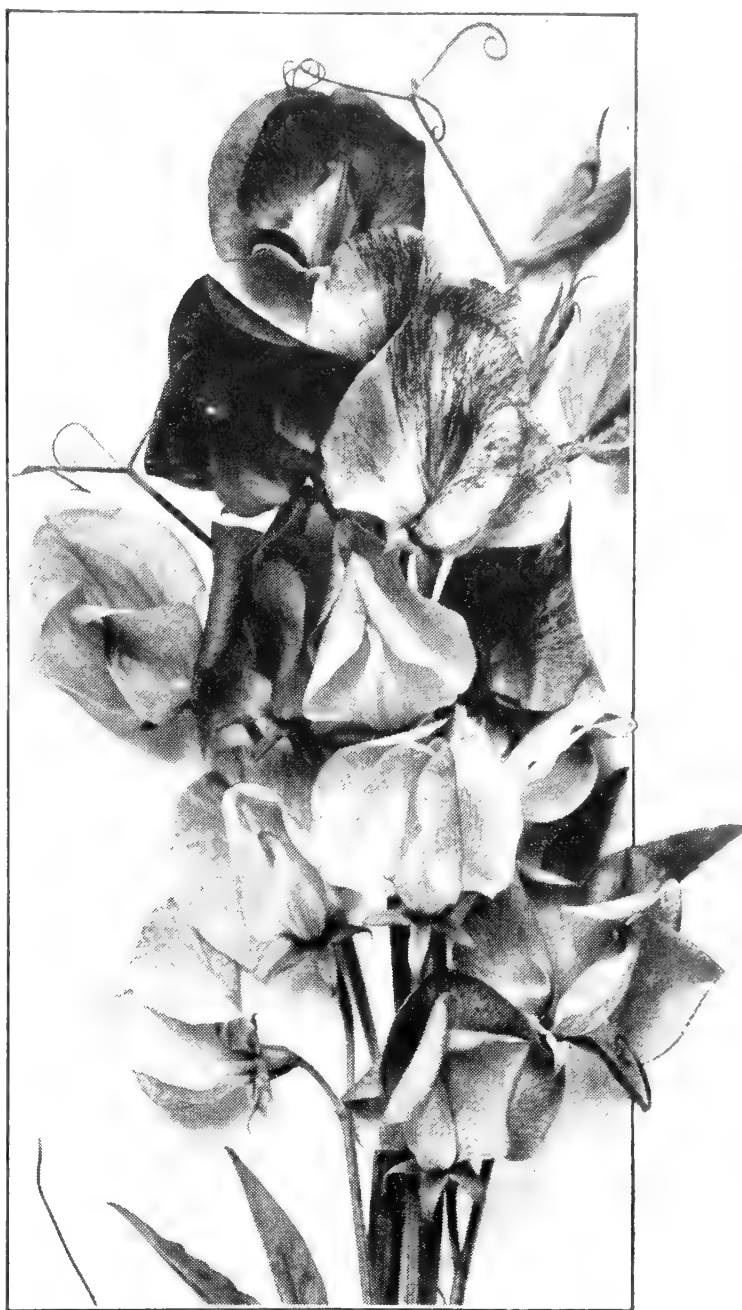
To grow Sweet Peas successfully it is necessary to plant EARLY and give plenty of moisture. They should go in the ground as soon as the ground can be worked and should be planted six inches deep, being covered at first with only two inches of soil, the trench being filled as the plants grow. It is best to soak the seed for several hours before they are planted. If this plan of planting early is followed, and if the Sweet Peas are kept mulched with peat moss, lawn clippings or else watered abundantly, they will certainly give a fine crop of lovely flowers held in admiration by every flower lover. The mixture we give you below will give you color in profusion and is well worth your consideration.

Cuthbertson Mixed

Spring Flowering

A great many people prefer to grow Sweet Peas in the mixed colors. Our superb Cuthbertson Mixture is made up of all the best varieties obtainable. The greatest care is taken to insure a well balanced range of colors and worthy of a place in any garden. Pkt., 10c; oz., 25c; ¼ lb., 65c; 1 lb., \$2.00.

The Cuthbertson, which we are offering instead of the Spencers, is a new type of Sweet Pea characterized by its excellent heat resistance. Comes into bloom midway between the early and late Spencers, and continues much longer, even in hot weather, when most Spencer varieties fade. The flowers are plainer than the Spencer type, but large with good stems. Results to date indicate that it is preferable in most localities.



Cuthbertson In Separate Colors

We give you below the best of the Cuthbertson varieties in a range of individual colors for those who want to work out a color scheme. Each one is a rare beauty and worthy of a place in your garden.

DANNY. Blue.

DAVID. Rose-crimson.

EVELYN. Cream-pink.

LOIS. Rose-pink.

JANET. White.

TOMMY. Marine-blue.

KENNETH. Crimson.

Any of the above: Pkt., 15c.

PERENNIAL SWEET PEAS. (*Lathyrus latifolius*.) (Hardy Sweet Pea). Very decorative, climbing vine of the Pea family for growing on fences, trellis, etc., and for cutting. Blooms all summer if the seed pods are removed. Mixed. Pkt., 10c; oz., \$1.25.



Verbena

Verbena (A)

(12,500 seeds per oz.)

One of our trustworthy garden companions. Of trailing habit. The foliage makes a perfect carpet and a fine background for the broad, flat flower heads of many brilliant colors. Sow in boxes in the house and transplant when the seedlings are an inch high, and set outside after danger of frost is past in a warm, sunny spot.

MAMMOTH MIXED. Producing in handsome umbels, flowers of large size in beautiful shades of white, rose, scarlet, blue and purple. Pkt., 10c; 1/4 oz., 45c; 1 oz., \$1.35; 4 ozs., \$4.00.

SCARLET (Defiance). Pkt., 15c.



Lilliput Zinnias

VIOLA, Blue Perfection. Pkt., 50c.

VIOLA, Jersey Gem. Pkt., 50c.

VIOLA, Mixed. Pkt., 15c.

VINCA. Mixed. Pkt., 15c.

VIRGINIAN STOCK. Mixed. Pkt., 10c.

WILD GARDEN MIXTURE is a revelation. You will get flowers you have never seen before. It is beautiful for that odd spot or in borders. Pkt., 10c.

Zinnias (A)

(2,500-4,000 seeds per oz.)

Splendid hardy annuals making a brilliant profusion of color and succeeding well in any soil. They will retain their beauty for several weeks and bloom until frost.

GIANT DAHLIA-FLOWERED. In formation the broad petals are closely imbricated, sometimes seeming almost to be piled one upon the other. The flowers often measure 4 inches in depth and 6 to 8 inches in diameter. In general appearance the flowers compare with the show Dahlias. Mixed colors. Pkt., 10c; oz., 80c; 4 ozs., \$2.50; 1 lb., \$7.00.

DAHLIA-FLOWERED CRIMSON. Pkt., 10c.

DAHLIA-FLOWERED ORANGE AND GOLD. Pkt., 10c.

DAHLIA-FLOWERED SCARLET. Pkt., 10c.

COLOSSAL or CALIFORNIA GIANT FLOWERED. The flowers are gigantic in size; thickly set with velvety petals. The plants are vigorous, branching freely and are fine for cutting. Mixed colors. Pkt., 10c; oz., 85c; 4 ozs., \$2.50; 1 lb., \$7.00.

GIANT DOUBLE LAVENDER. Pkt., 10c.

GIANT DOUBLE PURPLE. Pkt., 10c.

GIANT DOUBLE CRIMSON. Pkt., 10c.

GIANT DOUBLE ROSE. Pkt., 10c.

GIANT DOUBLE YELLOW. Pkt., 10c.

GIANT DOUBLE ORANGE. Pkt., 10c.

GIANT DOUBLE PINK. Pkt., 10c.

GIANT DOUBLE WHITE. Pkt., 10c.

LILLIPUT DOUBLE, MIXED, or "POMPON." 12 inches. The plants form handsome little bushes and fairly bristle with tiny, short-stemmed, very double flowers hardly exceeding a daisy flower in size. They are pretty plants. Pkt., 10c; 1 oz., 80c; 4 ozs., \$2.75; 1 lb., \$10.00.

FANTASY. This new Fantasy mixture with rounded flowers is composed of a mass of shaggy, raylike petals which give a delicate and refined appearance to the medium sized double flowers. The color range includes the brightest shades of red and orange, as well as the popular pastel pinks and cream. Pkt., 10c; 1/4 oz., 30c; 1 oz., 90c; 4 ozs., \$2.75; 1 lb., \$8.00.

DOUBLE FANTASY MEXICANA HYBRID. Pkt., 10c.

INDIAN SUMMER GIANT MIXTURE. Pkt., 10c.

ALL GIANT PASTEL MIXTURE. Pkt., 10c.

CREeping ZINNIA. Pkt., 15c.

CUPID TINY TIM. Pkt., 15c.

All prices quoted herein are subject to available stocks on hand, and subject to change without notice.



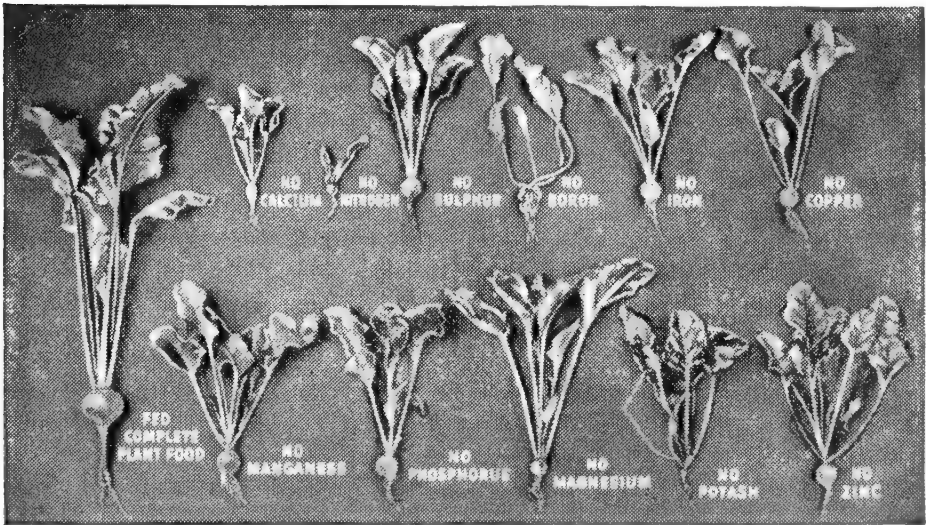
Choice of Millions for Lawns, Flowers, Shrubs and Trees!

Vigoro has been used year after year with fine results by millions of home gardeners. It is their choice for everything they grow!

A product of Swift & Company, Vigoro is complete plant food . . . ideal for grass and for flowers, shrubs, trees and your vegetable garden. It is clean, sanitary, odorless and easy to use! Include Vigoro on your seed order!

VIGORO
COMPLETE PLANT FOOD
A PRODUCT OF SWIFT

The picture below shows the results of a test made with Beets growing in sterile sand. The one fine beet received all the elements whereas each of the others received all but one. Here is photographic proof that plant feeding, more than any other factor except good seed, determines the success of the gardener.



The picture at the left clearly indicates the necessity of feeding complete plant food . . . and that's the reason we recommend that you feed everything you grow Vigoro Complete Plant Food. Order enough for your lawn, flowers, vegetables, trees and shrubs. You'll need 3 lbs. per 100 square feet of lawn and 4 lbs. per 100 square feet of flowers, vegetables, etc.

VIGORO PRICES:

100-lb. bag	} Prices on Request.
50-lb. bag	.....
25-lb. bag	.....
10-lb. bag	.....
5-lb. bag	.....
1-lb. bag	

**INCLUDE VIGORO
IN YOUR SEED ORDER!**

Use a Vigoro spreader. Detailed information on page 68.

FIELD and FARM SEEDS



A Big Yield
of
Grimm Alfalfa

Alfalfa and Clovers

The acreage seeded to Alfalfa in Michigan is increasing every year. All of our seed is northern grown, therefore, it is best adapted to our climate.

Grimm Alfalfa
Common Alfalfa
Medium Red or June Clover
Mammoth or Large Red Clover
Alsike Clover
White Blossom Sweet Clover
Yellow Blossom Sweet Clover
Timothy
Orchard Grass
Sudan Grass
Reed Canary Grass
Brome Grass (Bromus Inermis)

Amber Cane
Atlas Sorgo
Soy Beans
Japanese Millet
Golden Millet
Lespedeza
Dwarf Essex Rape
Sand Vetch
Silverhull Buckwheat
Canadian Field Peas
Wisconsin 38 Barley
Marion Oats
Huron Oats
Vickland Oats

Seed Corn

HYBRIDS

Kingcrost Hybrids
Michigan Hybrids
Silobred Ensilage
Wisconsin 355

OPEN POLLINATED

Pickett's Yellow Dent
Golden Glow
Early Murdock
Early White Cap Yellow Dent

Fodder Corn

Leaming

Red Cob

Permit us to quote you on your requirements

APPROX. 70,000,000 LBS. OF AIR-NITROGEN
ABOVE EVERY ACRE. THIS IS AVAILABLE
FREE FOR SOIL AND CROP IMPROVEMENT IF YOU
**CONVERT LEGUME SEEDS
INTO FERTILIZER PLANTS**

Inoculating by with

NITRAGIN

53 YEARS

SERVICE

ALFALFA
RED CLOVER
SWT. CLOVER
COWPEAS
PEAS
VETCH
A. W. PEAS
SOYBEANS
LESPEDeza
PEANUTS
BEANS
ALL LEGUMES

BUILD UP YOUR SOIL Inoculate Your Legumes With NITRAGIN

Inoculate your Legume seeds even tho planted on fields that have been inoculated before. Field tests have shown that better crops are harvested when Legume seeds are inoculated even when planted on fields where inoculated seeds of the same Legume crops had grown the previous year.

1951 NITRAGIN INOCULATION PRICES

When Ordering, ALWAYS State Name of Seed

COMBINATION (AB)

Size	Retail
1 bu. ea.	\$.50
2 bu. ea.90

ALFALFA

Sweet, Bur, Hubam Clovers

1 bu. ea.	\$.50
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CLOVERS

Red, Alsike, Crimson,
White and Ladino

1 bu. ea.	\$.50
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PEAS (All Varieties)

VETCHES (All Varieties)

100 lb. size (Inoculates up to 100 lbs.) ea.....	\$.50
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BEANS—Navy, Pinto, Wax, String, Kidney, Gr. Northern

1 bu. ea.	\$.50
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LESPEDeza—Hulled or Unhulled

Size	Retail
100 lb. size (Inoculates up to 100 lbs. seed)	\$.50

PEANUTS, COW PEAS

2 bu. ea.....	\$.35
5 bu. ea.....	.55

SOYBEANS (All Varieties, Including Edible)

2 bu. ea.....	\$.35
5 bu. ea.....	.55
25 bu. (one can) ea..	2.50

GARDEN SIZE

Garden Peas and Beans
Sweet Peas, Lupines and
Edible Soybeans

Enough for 8 lbs. seed
Retail Price 15c each.

NITRAGIN—Oldest and Most Widely Used Inoculator in America

GARDEX Hand Tools

GARDEX



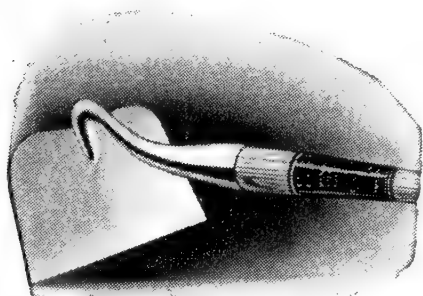
**No. 250
BOW-RAKE**

14 tooth, 14 inches wide, depth of head $3\frac{3}{8}$ inches, handle 5 feet. Mailing weight 5 lbs. \$1.95 each.



**No. 253
Floral Rake**

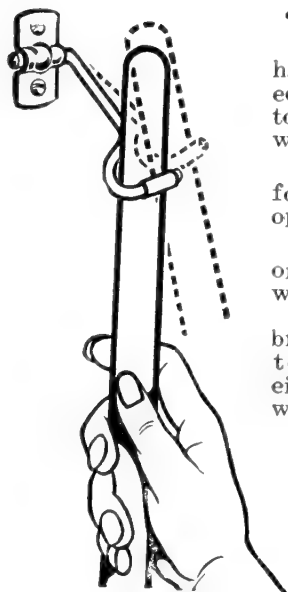
10 teeth, $7\frac{1}{2}$ inches wide, depth of head $2\frac{9}{16}$ inches, handle $3\frac{3}{4}$ feet. Mailing weight 3 lbs. \$1.20 each.



No. 906 1/2 Garden and Field Hoe
Sharpened blade, half polished, of high carbon steel, width $6\frac{1}{2}$ inches, 4-ft. handle. Mailing weight 4 lbs. \$1.15 each.



No. 121-5
Has a single bow for close-in work. Ideal for shrubbery and under plant leaves. Light in weight. 5 inches wide, 4-ft. handle. Mailing weight 4 lbs. \$1.50 each.



"HANG-IT"

How often haven't you wanted to hang your tools up out of the way?

No springs to force, wear or pry open.

Quickly insert or remove handle, with one hand.

Holds mops, brooms, garden tools, shovels either handles of wood or metal.

No home should be without several of these handy "HANG-ITS". 15c, postpaid.

No. 403 Lawn Sweep

Made of special tempered spring steel with flat, flexible teeth. 22 teeth, 18 inches wide, handle $3\frac{1}{2}$ feet. Mailing weight 4 lbs. \$1.40 each.



No. 404 Wire Broom

Made exactly as the No. 403 except it has round wire teeth. 20 teeth, 20 in. wide, handle 4 feet. Mailing weight 4 lbs. \$1.60 each.



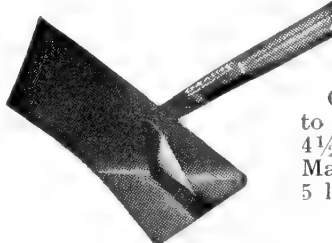
No. 740 Trowel

High carbon steel blade. Depth $5\frac{1}{8}$ inches, width $3\frac{1}{4}$ inches, over-all length $11\frac{1}{4}$ in. Mailing weight 10 ozs. 70c each.



No. 741 Transplanting Trowel

High carbon steel blade. Depth $5\frac{7}{8}$ in., width 2 in. Over-all length 12 in. Mailing weight 10 ozs. 70c each.



No. 400 Turf Edger

Can be held to cut any depth. $4\frac{1}{2}$ -ft. handle. Mailing weight 5 lbs. \$2.25 each.



No. 200-6 Hand Plow

6 in wide, 5-foot handle. Mailing weight 5 lbs. \$2.10 each.



No. 200-8 Hand Plow

8 in. wide, 5-ft. handle. Mailing weight 6 lbs. \$2.60 each.



No. 1503 3-Tine Cultivator

Designed for loosening and air conditioning the soil, $3\frac{1}{2}$ inches wide. 4-ft. handle. Mailing weight 5 lbs. \$1.40 each.



No. 4107 Scuffle Hoe

A push type hoe for drive-ways as well as gardens. 7 in. wide. Depth $1\frac{5}{8}$ in. Handle $4\frac{1}{2}$ ft. Mailing wt. 4 lbs. \$1.60 each.

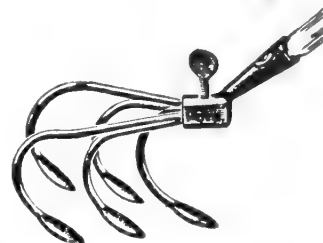
No. 1635 Diamond Point Hand Cultivator

7 tools in one. It's interchangeable for wide or narrow rows or to straddle row. Adjustable 1- $\frac{3}{16}$ -inch to 8-inch width. $4\frac{1}{2}$ -foot handle. Mailing weight 6 lbs. \$2.75 each.



No. 1605 Hand Cultivator

7 tools in one cultivator. Can be changed in a jiffy. Ideal for hotbeds or greenhouses. Adjustable $\frac{3}{4}$ -inch to 7-inch width. $4\frac{1}{2}$ -ft. handle. Mailing weight 5 lbs. \$1.95 each.



No. 1553 Improved 3-Prong Cultivator

Diamond point shares 6 inches wide, handle $4\frac{1}{2}$ ft. Mailing weight 5 lbs. \$1.95 each.



No. 732 Midget Culti-Hoe

Has 3 prongs and a square, sharpened blade $2\frac{3}{8}$ inches in width. Over-all length 12 inches. Mailing weight 10 ozs. 60c each.



No. 721 Midget Culti-Spade

Has 2 prongs and a pointed, sharpened blade $2\frac{3}{8}$ in. in width. Over-all length 12 in. Mailing weight 10 ozs. 55c each.



No. 713 Midget Cultivator

For use in small beds and narrow rows. 3 inches wide. Over-all length 11 inches. Mailing weight 10 ozs. 45c each.



No. 714 Midget Culti-Weeder

Same as No. 713 with weeding blade added. Mailing weight 10 ozs. 55c each.



No. 703 Midget Fork

Handy for many purposes. 3 in wide; over-all length 11 in. Mailing weight 6 ozs. 45c each.

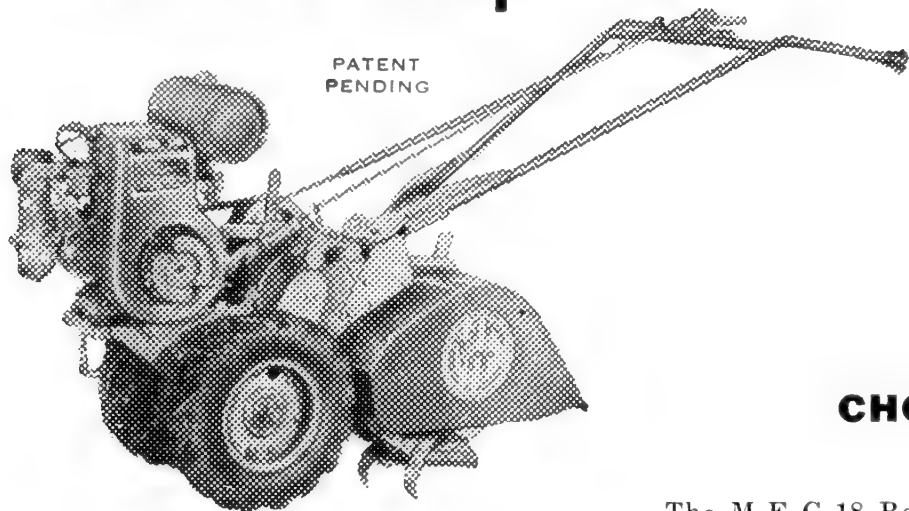


All tools subject to 3% Michigan State Sales Tax and f.o.b. Grand Rapids, which means that postage will be extra. You can figure the postage rates listed on page 3, but any money that is sent us that is not needed, will be promptly refunded when the order is shipped.



ROTARY GARDEN TILLERS

GUARANTEED to Increase Crop Yield



Note the sturdy construction of the tillage unit—the heavy tines are designed to allow average field stones to pass through—unit lifts over larger stones.

The purpose of Rotary Tillage is to mulch vegetation throughout the tilled depth. To make available more minerals and moisture for plant crop roots. To save time, labor and fuel—increasing crop yield and farm profits.

One of the most important reasons for Rotary Tillage is to put back into the soil those minerals that have been removed over a period of years. Here is a tool that will help the grower return his land to the status in which our forefathers found the soil when they migrated to this country.

CHOICE OF HORSEPOWER ON GARDEN MODEL

The M-E G-18 Rotary Garden Tiller illustrated to left is available either 5 H. P. or 7½ H. P. 4 cycle air-cooled power unit. Also available in 12 inch 3 H. P. and 16 inch 4½ H. P. Standard accessories are also available, including snowplow, bulldozer, sickle bar, and hiller-furrower combined. Power take-off models also available. Ask for descriptive circular. Prices gladly quoted upon request.

PLANET JR. TOOLS

We handle the Entire Planet Jr. Line of Tools and Tractors, as Well as Repair Parts. Write for Catalog and Price List.

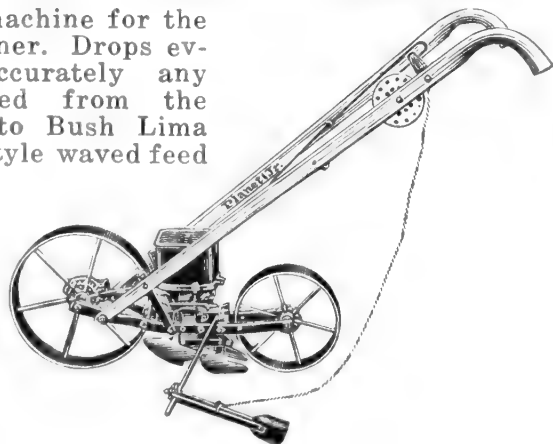


No. 13 Double Wheel Hoe

To those who like a double wheel cultivator we recommend this machine. The two wheels make the going more steady.

No. 300 Planet Jr. Seeder

The ideal machine for the market gardener. Drops evenly and accurately any vegetable seed from the smallest up to Bush Lima Beans. New style waved feed wheel does not crush or break Beans or Peas. Hopper can be removed in a few seconds to empty leftover seeds.



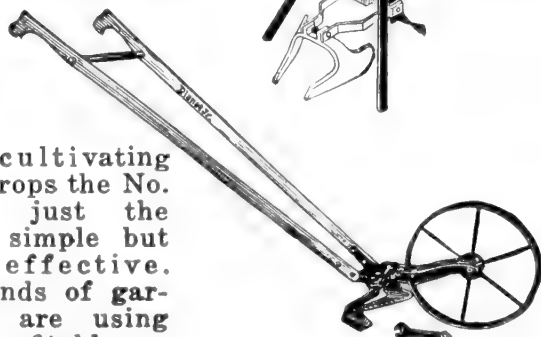
No. 219 Cultivator with Fertilizer Attachment

This handy machine answers the call for a light, inexpensive, practical tool for side-dressing growing crops. Small enough to go between 12-inch rows. It will handle nitrate and commercial fertilizers.



No. 18 Single Wheel Hoe

For cultivating small crops the No. 18 is just the thing; simple but very effective. Thousands of gardeners are using them profitably.



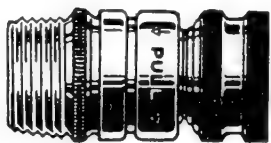
"Green Spot" Garden Hose Equipment

H-353 Quick Hose Connector

This is the accessory you have been waiting for. It reduces to a fraction the time and bother of attaching hose-to-faucet, hose-to-hose, or hose to accessory. The flexible hydraulic seal and locking device have been improved to eliminate any possibility of leaking or pulling apart. The coupling is free-swiveling to prevent any twisting strain on the hose. Made of solid brass, "just snap it on" that's all. Mailing weight each 6 ozs. Price \$1.00.

H-353-1. Separate female threaded end for each accessory. Mailing weight 2 ozs. Price 35c.

H-353-2. Separate male threaded end for each accessory. Mailing weight 3 ozs. Price 70c.



H-346 Four-Arm Sprinkler

Each arm is made with a different nozzle and pre-set at a different angle. The spray from each arm is thereby directed over various circular rings at different distances from the sprinkler. This means an equal distribution of water throughout the entire area covered. The low streamlined base is heavy enough to prevent wobbling while the sprinkler is in operation or tipping over when moved. Mailing weight 3 1/4 lbs. Price \$4.25.



H-255 Multiple Lawn Sprinkler

This is the sprinkler for long, narrow areas, irregularly shaped areas, steep banks and particularly hard, clay soils that do not readily absorb water. Can be used singly to water small areas up to 15 feet in diameter, or in multiples as needed. Each sprinkler is equipped with a removable end cap. Mailing weight each 9 ozs. Price, each \$1.00.



H-265 Fan Spray

This accessory was designed especially for watering plant roots without wetting the foliage or washing out top soil from roots. Protects many flowers from damaging fungus diseases that develop when the leaves are wet. Made of wrought brass in a bright dipped finish. Mailing weight 4 ozs. Price 60c.



H-262 Heavy Duty Fan Spray

Heavy forged brass body and precision pierced front plate. Price each \$1.25.

H-366 Weather-Matic Sprinkler

Two-arm, fully adjustable. Just set the nozzles for any desired distance, from 10 to 50 feet. Smooth, quiet action is assured, thanks to the full ball bearing mounted head. It is non-rusting, and precision made with head, arms and nozzles of solid chrome plated brass. The green enameled base is of heavy cast iron, and will not wobble or tip when being dragged. Price each \$7.95.



All the items on this page are not postpaid. Postage will be extra, and we will ask that you consult the postal rates on page 3, but in any case any money that is sent us that is not needed will be promptly refunded when the order is filled. Be sure to include the 3% Michigan State Sales Tax.

H-333 "Y" Hose Connector

Many have only one faucet on the outside of their homes. They, particularly, will appreciate this "Y" connector. With it, one sillcock can do the work of two, allowing the attachment of two lengths of hose and the use of two accessories at the same time. Made of cast brass. Mailing weight 9 ozs. Price 85c.



H-344 Goose Neck

A little known item but this extension allows connection of hose to faucet without skinned knuckles. Stops hose kinking and bending at the faucet. Made of cast brass. Mailing weight 9 ozs. Price \$1.00.



H-375 Standard Hose Nozzle

Produces a solid stream, various types of spray, and has a positive shut-off. Machined from solid brass with an attractive machine finish. Mailing weight 9 ozs. Price \$1.00.



H-360 Heavy Duty Hose Nozzle

It was designed to give a lifetime of trouble free service. This is the best in hose nozzles. Machined from solid brass with a self centering floating stem and a non-rising control sleeve. Outer body heavily knurled for easy finger tip operation. Mailing weight 10 ozs. Price \$1.35.



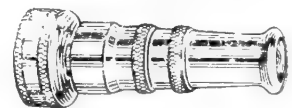
H-226 Round Flower Sprinkler

This sprinkler with its large diameter (4 inches) head delivers a volume of water in a fine spray for distances up to 13 feet. There is no better hand sprinkler for porous, sandy soil that needs frequent, heavy watering. It makes an excellent outdoor shower for the children. Made of wrought brass, satin finished and lacquered. Mailing weight 6 ozs. Price 85c.



H-3375 Chrome Hose Nozzle

"New." This nozzle is accurately machined from solid brass and heavily chrome plated. Will withstand years of hard usage. Price \$1.10.

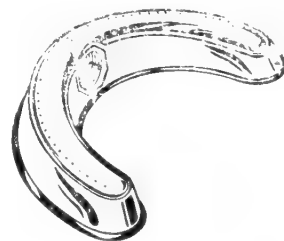


H-357 Rubber Washers

Fits all standard size equipment. Supplied mounted 10 to a clip. Price 5c per clip.

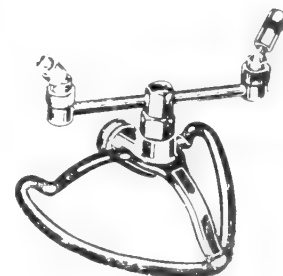
H-263 Crescent Sprinkler

Can be moved without shutting off the water. Covers areas up to 10 feet wide and 20 feet long. Made of wrought brass with bright finish. Price \$1.45.



H-334 Two Arm Adjustable Sprinkler

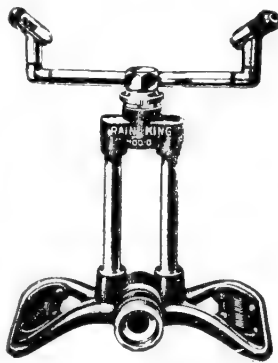
The most versatile of all sprinklers; the two arm adjustable gives correct water coverage to large lawns as well as narrow plots with a spray ranging from a fine mist to coarse heavy rain. The nozzles themselves, which lock securely at any angle, are machined from solid brass to provide the same complete range of sprays as obtained from the best garden hose nozzle. Price \$5.25.



RAIN KING SPRINKLERS

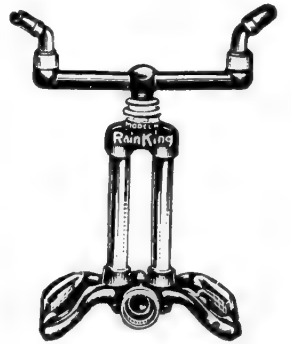
Rain King Sprinkler Model "D"

Can be adjusted to operate slow or fast. Will operate on any water pressure. Mailing weight 4 lbs. Price \$4.50.



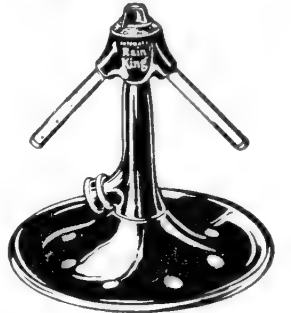
Rain King Sprinkler Model "H"

Chrome plated. Adjustable for coarse or medium shower. Can be used for revolving or stationary sprinkling by simply turning lock wheel. 11¼ inches tall; 9¼ inches from nozzle to nozzle. Mailing weight 5 lbs. Price \$6.25.



Rain King Sprinkler Model "K"

Automatic, new sensational sprinkler that you can set instantly to sprinkle any size circle 5 to 50 feet, by simply turning the button on top of the sprinkler. Mailing weight 5 lbs. Price \$7.75.

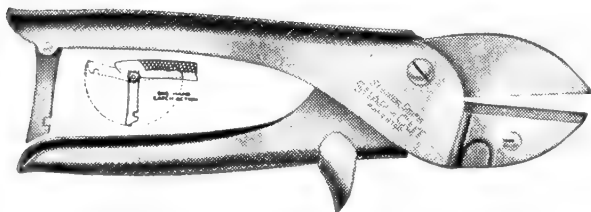


GRASS SHEARS

No. 2 "DOO KLIP"

Long handle; over-all length 37 inches. Serrated edge, cadmium plated handle. Rolls on two 3 inch diameter solid rubber wheels. No handle catch.

Prices
Gladly
Quoted.



No. 119

8-inch Original "Snap Cut" finished in chrome. \$2.25.



"MIRACLE". Revolutionary new basic design makes it the easiest working shear ever. Blades cannot stick shut or spread out of alignment; cuts thinnest or toughest grass or weeds. Blades oil hardened and hollow ground. Red enameled handles.

Hole-in-One- Planting Tool

Brings to you an improvement far in advance of former planting methods. The tapered cup removes the soil and makes a perfect planting hole in one operation. It's used in small city gardens, large estates or commercial nursery. Ideal for bulb planting. Merely push the tool into the soil with a slight twist. Continue this motion as you remove the tool and the soil comes with it. Mailing weight 1 lb. Price 85c.



No. 1 "DOO KLIP"

Serrated edge, cadmium plated blades, wire catch. Prices on application.



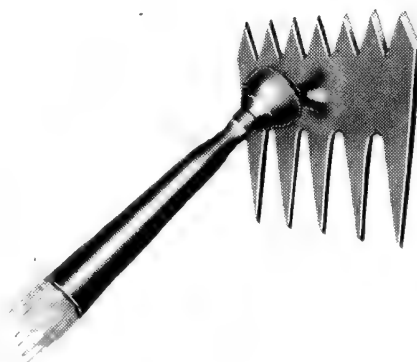
No. 4775

9-inch, Vineyard pattern, high quality steel blade which is renewable, ratchet lock nut. malleable iron handle half polished with blue lacquer.

It's used the year around.

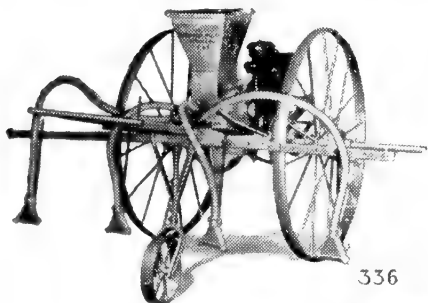
Kamm Culti-Weeder

The modern garden tool. Ideal for the garden, flower bed or field. The ball and socket joint permits the user to set the blade to any position or angle to suit the job. Adjustment is very simple. The blade is made of a high carbon, manganese steel, has two serrated edges, and two straight edges. Comes with a waxed and polished ash handle.



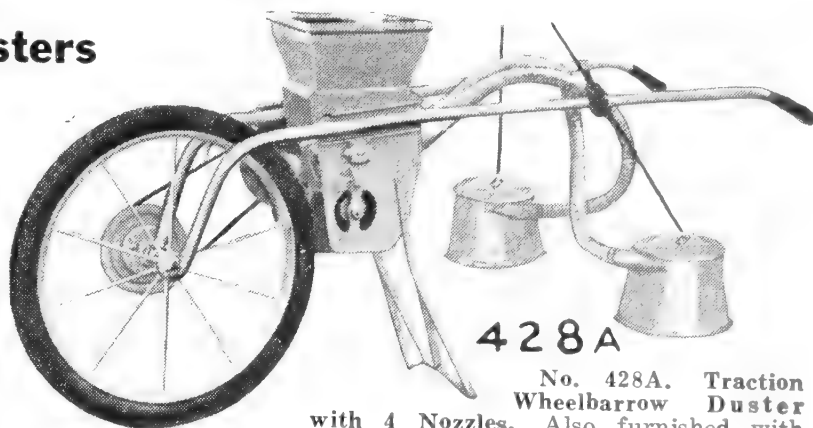
Can be used as a scuffle hoe, turf edger, Potato hook, ice scraper, weed or grass slicer, henhouse scraper and by the fruit men as a bark scraper. 4½-ft. handle. Mailing weight 4 lbs. Price \$2.50.

The Messinger Line of Dusters



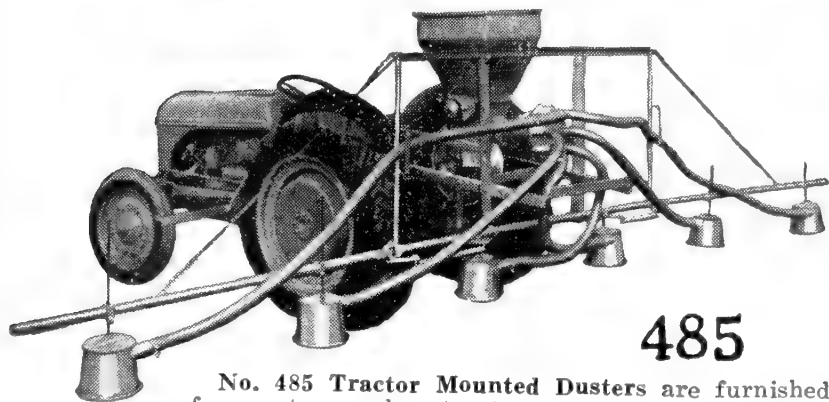
No. 336 SEp-4 V Self-Propelled Duster. With adjustable wheel gauge.

336



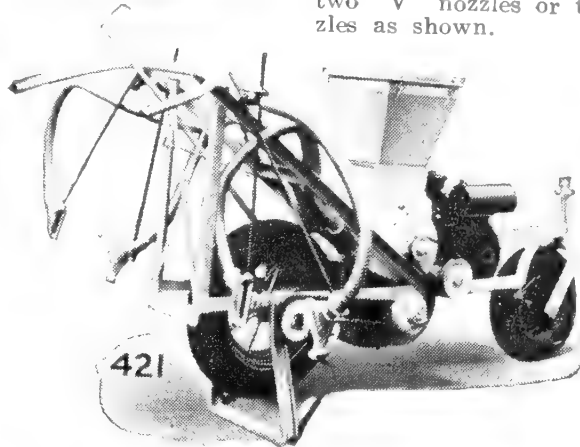
428A

No. 428A. Traction Wheelbarrow Duster with 4 Nozzles. Also furnished with two "V" nozzles or two whirlpool nozzles as shown.



485

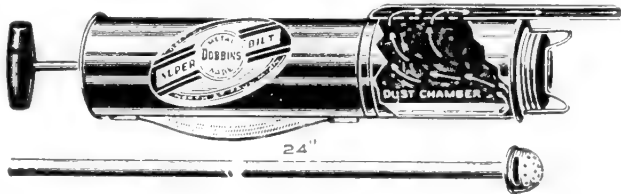
No. 485 Tractor Mounted Dusters are furnished for most one plow tractors up to 8 rows. Shown is the model "R-Sr." with whirlpool nozzles. Also furnished with tree or drift tube and operator's platform.



421

No. 421 SEPT-4 V. Two rows, two "V" type nozzles per row. Self propelled tandem duster.

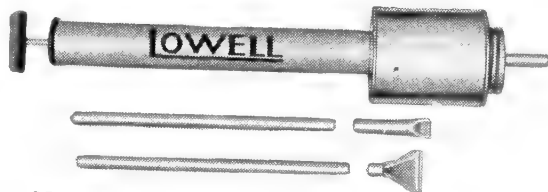
No. 132 Dobbins Hand Dust Gun. Ideal for all garden dusting.



Root Dusters

Hand Gun, C-3. Traction Dusters. 1- and 2-row. Power Dusters. All sizes.

Your Inquiries Solicited.



No. 461. Household Duster. 12 in. over all, 1 1/2 in. diameter. Ideal for use in exterminating pests in the home, henhouse, barn, etc.

No. 465. Qt. capacity, 20" over all, plus two 12" extensions, 1 1/2" diameter pump. Ideal for use in field and garden.



SPRAYERS



No. 94G Lowell Streamer. Seal Tite Nu Top. Capacity 3 1/2 gallons. 21 inches high. 24 inch high pressure spray hose. 2 foot brass extension. All brass nozzle.



No. 46G Lowell Pennant. Seal Tite Nu Top. Capacity 4 gallons. 21 inches high. 27 inch high pressure spray hose. 2 foot brass extension. All brass nozzle.

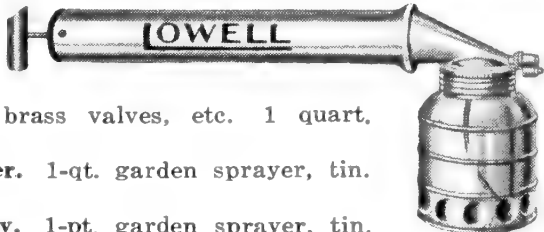


No. 8 Dobbins De-Luxe Garden Sprayer. Tank 2-gal. cap. galv. steel, funnel fill top, 3 ft. 3/8 in. high pressure hose, 12-in. curved brass extension.



No. 34G Dobbins Bighead Sprayers. Tank 3 1/2 gal. capacity. The Bighead provides a large 4" diameter opening for filling, and permits positive cleaning. 30 in. of 3/8 in. high pressure hose. 24 in. brass extension, with aphid angle nozzle.

No. 206G. 1 1/2" x 13" pump. Adjustable 2-way nozzle. Heavy glass container, brass valves, etc. 1 quart.



No. 270 Premier. 1-qt. garden sprayer, tin.

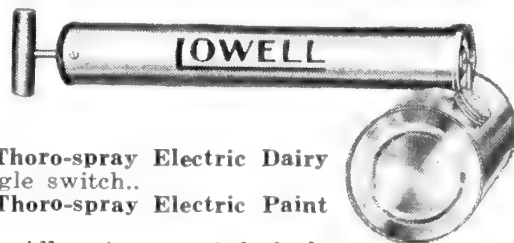
No. 265 Nu-Day. 1-pt. garden sprayer, tin.

We also handle the Dobbins line of small sprayers. Also Dobbins No. 200 2-row crop dusters, Stauffer Knapsack Duster.

No. 309 Lowell Thoro-spray Electric Dairy Sprayer. With Toggle switch..

No. 305 Lowell Thoro-spray Electric Paint Sprayer.

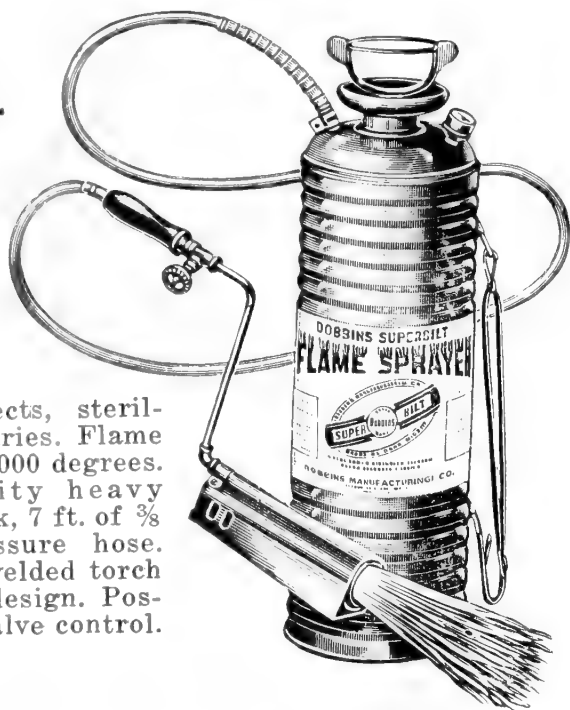
Inquiries solicited. All prices quoted f.o.b. Grand Rapids.



Ask For Prices on These Items. We Solicit Your Inquiries.

Flame Sprayer

No. 210 Dobbins Flame Sprayer. It burns, heats, disinfects, sterilizes, thaws, dries. Flame temperature 2000 degrees. 4-gal. capacity heavy galv. steel tank, 7 ft. of $\frac{3}{8}$ in. high pressure hose. Heavy steel welded torch of improved design. Positive needle valve control.



Farm Fertilizers

Commercial fertilizers are those which are used for general farm purposes, and are composed of the three elements of plant food, namely Nitrogen, available Phosphoric Acid and Potash K_2O and are mixed by the world's largest fertilizer manufacturers in the proper proportions, so as to give your soil the proper available plant food to produce a maximum crop. We handle large quantities of the various analyses every year and will ask that you consult us and get the right fertilizer for your specific needs. Prices will be quoted upon application.

Mixed Fertilizers. Standard analyses.

Nitrate of Soda
Sulphate of Ammonia
Super Phosphate
Muriate of Potash
Steamed Bone Meal
Pulverized Sheep Manure
Shredded Cattle Manure

Lime
Manganese Sulphate
Aluminum Sulphate
Copper Sulphate
Ammonium Nitrate
Cyanamid
Zinc Sulphate
Magnesium
Iron Sulphate



MILORGANITE
IDEAL FERTILIZER

Milorganite is a natural unadulterated organic plant food. It contains more of the "basic" fertilizer elements than good old barnyard manure and is richer in the vital "trace elements" also. The effects on growth are long lasting, high in purity, non-burning, and it is easy to use. It is clean, dustless and free flowing. Ideal for lawns, trees, shrubbery and gardens. Prices upon application.

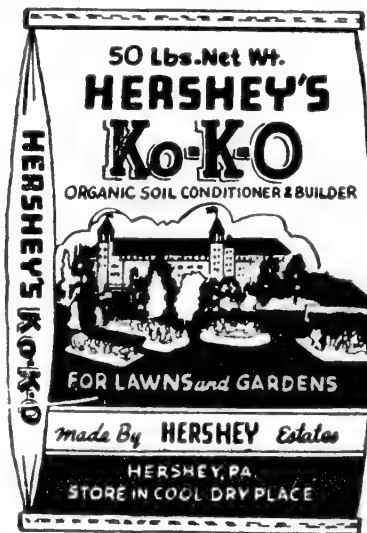
KEM LIQUID PLANT FOOD. 4 ozs., 10c; 12 ozs., 25c; 1 qt., 50c; 1 gal., \$1.00.

HYPONEX PLANT FOOD grows superior plants in soil, sand or water (contains Vitamin B-1.) With Hyponex and water, plants grow luxuriantly, flower abundantly, and develop sturdy growth regardless of the poorness or sterility of the soil. In fact, with Hyponex they will grow and flourish in clean sand, cinders or barren earth. Hyponex is ideal for hydroponics--the science of growing plants without soil. A teaspoonful makes a gallon of liquid plant food, which is enough for one watering of house plants in the average home. A 1-lb. can is sufficient to make 100 gallons. One of the advantages of Hyponex is that it makes a liquid plant food complete and balanced; yet because it is a powder it can be stored or transported easily and there is no spoilage, for it keeps indefinitely. 1-oz. pkt., 10c; 3-oz. can, 25c; 7-oz. can, 50c; 1-lb. can, \$1.00.



No. 14P Continuous Sprayer

Streamlined, solid copper tank; seamless brass pump 14 in. by $1\frac{1}{2}$ in. Complete sprayer, highly polished and lacquered. Very attractive. Quart size \$4.25.



Ko-K-O

Organic soil conditioner and builder. No acid, no odor, no weed seed, no water. Cocoa bean shells and other parts of the Cocoa bean are expertly blended and sweetened to produce a natural, organic material furnishing a steady source of humus for the soil.

Insecticides and Seed Disinfectants



Antrol Ant Traps. Metal traps that contain two types of specially prepared material that attract and kill both grease and sweet eating ants. Each 15c.

Antrol Ready Filled Sets. These convenient sets contain four glass feeders ready filled with Antrol syrup. Safe around children and pets. Sets, each 39c.



Antrol Syrup Refills. For refilling "feeders." It kills both sweet and grease eating ants, either inside or outside the house. 4-oz. size, 25c.

Arsenate of Lead. For all leaf-eating insects. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

Black Leaf 40. A solution of Nicotine Sulphate used to kill plant lice. 1-oz. bottles, 5-oz. bottles, 1-lb. bottles, 2-lb. bottles, 5-lb. cans, 10-lb. cans, and 50-lb. drums.

Black Leaf 155. 14% Nicotine. A prepared dry compound of nicotine for the control of codling moth and other insects. 3-lb. pkgs.

Bordeaux Mixture. Used in spraying for blight and fungous diseases. 1-lb. pkgs., 4-lb. bags, 48-lb. cartons.

Insecticides and Seed Disinfectants — Cont.



DuPont Seed Disinfectants and Turf Insecticides



New, Improved CERESAN. For Wheat, Oats, Barley, Rye, Sorghums, Millets and Flax, to control smuts and some other seed-borne diseases. Usually reduces seed decay and seedling damping off of Cotton, Flax, Peas and Sugar Beets, surface seed-borne anthracnose and angular leaf spot.

4-oz. can\$0.45
1-lb. can 1.15
4-lb. can 3.90
40-lb. drum ...32.20

ARASAN. For Corn, Sorghums, Peanuts, Soy Beans, Rice, Onions and other vegetables. Usually reduces losses from seed decay and damping off. Two-way action—as a disinfectant, generally destroys many surface seed-borne organisms; as a protectant, generally protects seed against soil-borne organisms responsible for seed decay.

3/4-oz. pkg.\$0.25
8-oz pkg. 1.00
4-lb. can 6.00

SEMESAN. For vegetables, flower seeds and bulbs. Generally preserves seed against rotting in cold, wet soils, controls damping off or seedling blight and certain other seed-borne diseases. Helps promote increased germination, sturdier growth, larger yields, better grade produce.

1/3-oz. env. ...\$0.20
2-oz. pkg.60
12-oz. can 2.40
4-lb. can 11.00

SPECIAL SEMESAN. For lawns, golf courses and other fine turfs. A fungicide used especially to prevent or control large brown patch and dollar spot. Apply as a liquid.

1-lb. can\$2.00

SEMESAN BEL. For both Irish and Sweet Potatoes. Treat Irish Potatoes to reduce seed rotting, surface seed-borne rhizoctonia and scab. Treat Sweet Potatoes to protect against seed decay and as a treatment for seed and sprouts to control stem rot, scurf, soil stain or rust.

2-oz., pkt.\$0.50
1-lb. can 2.00
4-lb. can 6.33

SEMESAN JUNIOR. For seed Corn. Generally helps protect seed against rotting in the soil and checks forms of seedling blight and root-rot caused by certain fungi (molds) on field, pop or sweet Corn. Often improves germination stands and yields.

1 lb.\$0.75

TERSAN. This is an exceptionally effective non-mercurial for prevention or control of large brown patch and dollar spot on golf courses, grass tennis courts, lawns and other fine turfs.

8-oz. can\$0.80

Calomel, "Merck." Used for Onion thrip, Potato scab, and neck rot on Gladiolus. A seed treatment for Cabbage and Cauliflower seed as well as field treatment.

Cuprocide, Yellow (Red Copper Oxide). For seed treatment. Used in greenhouses to prevent damping off and black leg. 3-lb. bags only.

Krop-Saver C-1 Dust. Tri-basic copper sulphate for blight control on vegetables.

Krop-Saver No. 5-C Dust. Pyrethrum and copper combination bug and blight control.

Krop-Saver No. 75 Dust. Recommended for Cabbage and Cauliflower worm control.

Paris Green. A very strong insecticide for all eating insects. 1/4-lb. pkgs., and 1-lb. pkgs.



Cyanogas A Dust. Calcium Cyanide for killing all rodents. 1-lb. cans, 5-lb. cans.

Cyanogas G Fumigant. For greenhouse fumigation or general fumigation of all enclosed spaces. 4-oz. cans, 5-lb. cans, 25-lb. drums.

DDT. Dusts and liquids.

Dusting Sulphur. Used for crop dusting. Sold in 100-lb. bags or in bulk.

Ever Green Garden Spray. Retail prices: 1 oz., 35c; 6 ozs., \$1.15; 1 pt., \$2.45; 1 qt., \$4.10; 1 gal., to commercial growers, \$12.60.

Formaldehyde. Liquid mixed to prevent smut in Onions, Potato treatment, etc. Sold in your container or in 50-gal. drums; also in pt. bottles.

Krop-Saver No. 10 Pyrocide Dust. Very effective on Cucumber beetles, Squash bugs, etc.

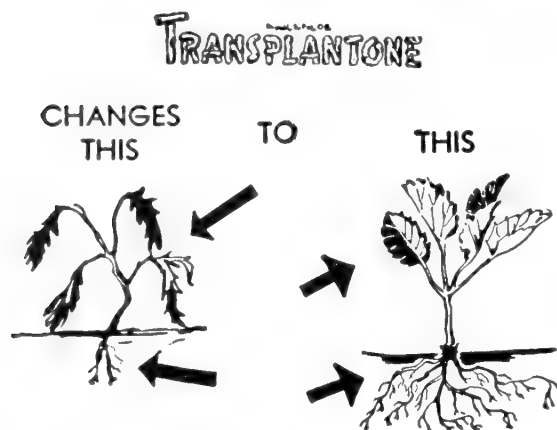


Red Arrow Spray. A concentrated rotenone spray in 1-oz., 4-oz., 1-pt., 1-qt., and 1-gal. bottles.

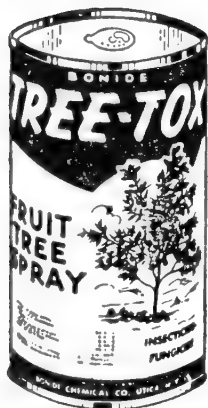


Rootone. The plant hormone powder is a root forming stimulant when applied to cuttings, seeds or bulbs. This powder gets its root forming activity from the synthetic plant hormones or growth substances which it contains, and is used on grass seeds, vegetable and flower seeds, bulbs of all kinds. Comes in various sizes.

Insecticides and Seed Disinfectants — Cont.



Transplantone. For stronger roots. When plants are moved or transplanted many of the feeder roots are broken. The plant usually stops growing until it repairs or replaces these feeder roots. Loss of water causes wilting. Transplantone helps grow new roots and reduces loss of water so the plant starts growing again in a much shorter time.



Tree-Tox is the new, complete fruit-tree insecticide-fungicide, containing a scientific blend of two micro insect toxicants, DDT and CHLORDANE; and two micro fungicides, SULPHUR and FERRIC DIMETHYL DITHIO CARBAMATE; chemically treated with adjuvants, spreaders and wettable agents. The use of this single product will control all diseases and insects on Apple, Pear, Cherry, Plum and Peach trees. Ideal for the party with only a few trees, as this ONE product will take care of them all. Prices on request.



... no unsightliness following garden dusting! A few strokes of the exclusive EndoPest dust gun envelops your plants in an almost-invisible protecting film... gives you control over most chewing insects, sucking insects and fungus diseases! Use with confidence on edible fruits and vegetables. We have refill cartridges for the guns.

MADE BY SWIFT

MAKERS OF VIGORO

End-O-Pest Prices		Prices on Request
10 oz. gun	
4 oz. pkt.	
10 oz. refill	
2 lb. pkg.	



Tree Tanglefoot. For safeguarding trees and vines against climbing insect pests. Will remain sticky when fully exposed to the weather. Prices upon application.

WE RECOMMEND TRI-OGEN



The all-purpose spray for Rose plants. Insecticide, fungicide and plant stimulant all in one.

Prices	
"E" Kits	.....\$1.35
"A" Kits	..... 2.25
"B" Kits	..... 6.00
"C" Kits	..... 9.00

Tobacco Dust. Finely ground. Sold in bulk, any quantity, or in 100-lb. bags.

Weatherproof Pencils. 10c each.

Garlanite Putty. In 1-gal. cans. Prices on application.

Greenhouse Staples. The original Van Reyper points. 9/16 in. or 5/8 in. long in box of 1000.

Zinc Greenhouse Glazing Points.

Corn Planters.

Corn Planters with Fertilizer Attachment.

Potato Planters.

Potato Planters with Conveying Tube.

COSTS 3 CENTS TO PAINT 25 SQ. FT. CARBOLA-DDT

Insect-Killing and Germ-Killing
White Paint

A FLY KILLER AND DISINFECTANT, TOO

Why waste money on expensive DDT mixtures to kill flies? Carbola-DDT (2% DDT) is *guaranteed* to kill them at low cost. Proven in thousands of tests on farms by county agents. Natural adhesiveness of our special mineral carrier causes Carbola-DDT to stick to wall, ceilings. This gives you the *residual*, long-lasting DDT recommended by authorities. Continues to kill flies, mosquitoes, spiders for months. Simply mix Carbola-DDT powder in water and apply with brush or sprayer. Dries white. Costs approximately 3 cents to treat 25 sq. ft. No oil, no fire risk. Use in cow barns (cuts need for cow spray 50%), poultry houses,

rabbitries, pigeon lofts, outdoor toilets. And paint your cellar and dog house.

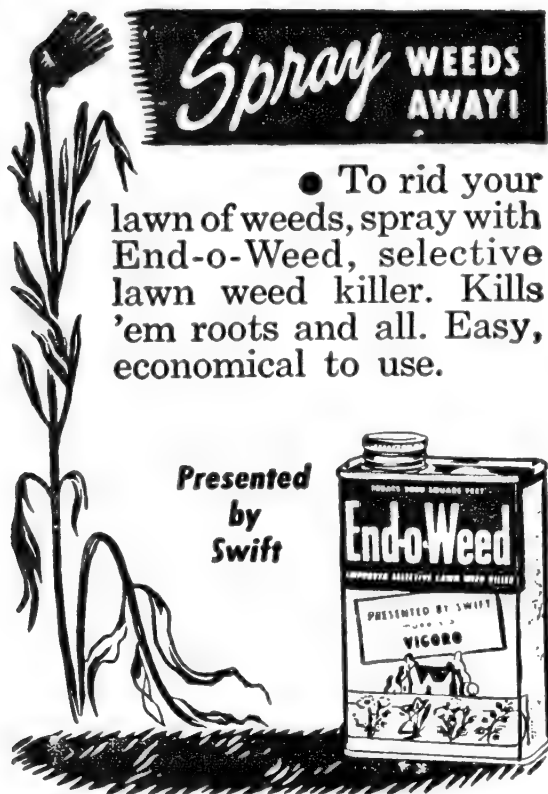
DESTROYS DISEASE GERMS, ODORS

Carbola-DDT also contains a disinfectant which kills germs of disease that afflict cows, poultry and other livestock. Used for a quarter of a century as Carbola, the disinfecting white paint, by agricultural colleges, hatcheries and thousands of farmers. Now it does three jobs for you in one easy operation: (1) Kills flies (2) Destroys disease germs (3) Meets whitewash sanitation requirements of Board of Health. Used also as a dry dip, deodorant and soil treatment.

Write for handy egg record chart.

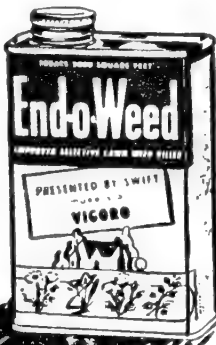
Prices quoted on request.

Weed Killers



● To rid your lawn of weeds, spray with End-o-Weed, selective lawn weed killer. Kills 'em roots and all. Easy, economical to use.

Presented by Swift



EndoWeed Prices

1/2 pint liquid	} Prices on Request
1 qt. liquid	
1 gallon liquid	
ENDOWEED SIDE SPRAYER	

Du Pont Ammate Weed Killer

A crystalline material containing ammonium sulfamate as its active ingredient. It has proved to be outstandingly successful for the control of poison ivy, poison oak, ragweed, buckhorn, plantain and certain other weeds.

2-4 Dow Weed Killer

(In powder form.) Kills many weeds without injuring the grass. It is easy to mix with water to the desired strength.

Weed-No-More Magic Weed Killer

A Sherwin-Williams product containing 2, 4-D. It kills the ugly weeds, but won't harm common lawn grasses.

Weedone

"The internal weed killer." A 2, 4-D concentration that will kill most weeds without injuring valuable grasses. Simply dilute 1 qt. in 25 gallons of water and spray the leaves.

Crab Grass Killers

Zotox Crab Grass Killer

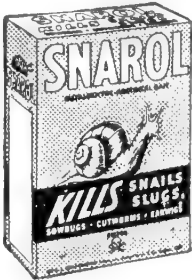
Crab grass is America's No. 1 annual lawn weed. It doesn't appear until August and grows very rapidly, reseeding itself for another year. ZOTOX will kill this weed as well as the seed that has dropped without sterilizing the soil and the lawn may be reseeded and fertilized in three or four days after it has been applied.

Soil Disinfectants

Chlorpicrin (Tear Gas). Has long been known as the best means of disinfecting soil for disease and nematodes that are in the soil.

Larvacide is the trade name for high-test Chlorpicrin, manufactured especially for soil treatment and food product fumigation. LARVACIDE is a heavy, colorless liquid (or with yellowish tinge) which volatilizes (gasifies) readily into a tear gas. Applied under soil surface as a liquid, LARVACIDE volatilizes and then spreads through the soil mass. Completely volatile, it leaves no harmful residue. Ask us about this product for disinfecting your soil and the method of doing it.

Snarol. Kills snails, slugs, cutworms, sowbugs, earwigs. Spread around the plants late in the day after the ground has been watered. 1 lb., 35c; 2 1/2 lbs., 75c, f.o.b. Grand Rapids.



VIMLITE

The flexible health glass. It transmits healthful sun rays. An all-purpose plastic glazing—flexible, unbreakable, reliable. Easy to install for poultry houses, plants, hotbed sashes, cold frames, etc. 36 inches wide. 50c per running foot; 50-ft. rolls, \$23.25; 100-ft. rolls, \$46.25. Sample mailed upon request.

Money Back Guarantee



DOGZOFF keeps dogs and other animals away from places they are not wanted. Harmless. Cannot injure vegetation. Non-poisonous. Non-inflammable. You must be satisfied or money will be refunded. Bottle 60c. Postage extra.

KLER-VUE LABEL



A Deluxe, All-Weather, Recording Plant Label. Tempered glass container, plastic screw cap, and rust-proofed green enameled stake.

Write the name of your plant on label and insert it into the bottle.

The tube insert is used for recording place of purchase, color, dates of planting, blooming, etc.

Price: \$2.50 per doz., including labels and data strips. 10% off in gross lots. F.o.b. Grand Rapids. Postage extra.

THE ROSS ROOT FEEDER



takes water and plant food RIGHT to the ROOTS where they do most good

Give your lawn and garden the professional care of Root-Zone Feeding—yet save time, trouble and expense. It's easy now, with the Ross Root Feeder. So many advantages in this superior new gardening tool.

ADDS VIGOR—Root-Zone feeding promotes deep, hardy root systems.

EFFECTIVE—Plant food and water go to Root Zone for greatest benefits.

SAFE—Ross Nutrient Cartridges can be safely applied to roots at all stages of growth.

ECONOMICAL—Ross cartridges contain growth-essentials in concentrated form.

STOPS WASTE—No run-off loss of fertilizer and water.

NO BURN—Sub-surface watering safe even at mid-day.

ADJUSTABLE—Flow can be controlled to exact needs.

HANDY—Fits garden hose. Penetrates ground easily.

DURABLE—Precision built for long service. Guaranteed.

Transplanting flowers? Transplant them clean and dry—then apply water at root-zone when transplanting is completed. Planting hedge? Or some trees? Let the Ross Root Feeder insure a good start. Want prize blooms? Ross Nutrient Cartridges stimulate extra development. Dry spells ahead? Root-Zone Watering helps save lawns and gardens.

Price, with 12 cartridges, \$3.50.

One dozen cartridges come with each Root Feeder. Extra cartridges \$1.00 per dozen.

All Prices Subject to Change Without Notice and F. O. B. Grand Rapids.

DO YOU WANT — More - Earlier - Sweeter - Seedless TOMATOES

JUST SPRAY WITH HORMEX DURING BLOOMING!

Here's How You Do It:

Spraying with hormones upon the blossoms of various plants not only stops premature blossom drop but also fortifies pollination, so that you get a better set of fruit or seed — a bigger yield! with TOMATOES, strong solutions will produce SEEDLESS fruit, often sweeter and more choice.

Professional growers of tomatoes use mainly the Double and Concentrated strengths. (Incidentally, commercial tomato growers use more Hormex than all the other hormone sprays put together. It's very economical on a commercial basis—not a mere hobby preparation.) A \$2.00 bottle makes 50 to 200 gallons of spray. The \$1.00 size makes up to 30 gals.

Hormex comes in two concentrations—Gold and Silver Labels. With either, directions are given for various dilutions.

To make more blossoms set into fruit, it's best to spray

the whole plant as well as the blossoms because this increases plant vigor. The same is true for beans, peas, sweet corn, alfalfa and other crops.

To induce seedless tomatoes, peppers, etc., you spray only the blossoms or flower clusters.

MANNA FLORETTE

MANNA in a colorful plastic flower pot. Will make 600 lbs. of fast acting liquid fertilizer, both for only \$1.00. Your old favorite "Manna" plant food and transplant starter now packed in A BEAUTIFUL Florette pot, green, yellow, red, black and ivory, durable, washable, light weight, holes for drainage. Label comes off, and the top becomes the saucer—and you have a delightful pot for African violets and other house plants, and the Manna is good as well. It has added GROW-POWER. Remember Manna is fortified with hormones, vitamins, and health giving minerals; has all the primary foods in the right balance and percentage too. Can be used either direct in soil or in water solutions. Wonderful for transplanting because it stops root shock; starts plants fast.

ACTIVO

YOUR OWN ODORLESS FERTILIZER FACTORY

Humus From Compost in 2 to 6 Weeks

Now you can make rich, compost fertilizer from even garbage, WITHOUT ODOR, in a tiny back yard space, in 2 to 6 weeks! Just gather waste—table scraps—leaves—grass—garden rubbish, etc., even sawdust and soot and treat with ACTIVO. Easy. Low cost. No. 7 size treats up to 1,700 lbs. compost.

ACTIVO also adds life to jaded soils—activates and conditions when applied directly. Use it to "stretch" and convert chemical fertilizer, and to reduce odor in outdoor toilets and convert waste into easily handled ash-like humus.

The No. 7 and No. 25 are by far the most popular sizes. The \$5.00 value blueprint plans for Composter Cabinet (with specifications and list of materials) are given FREE only with

the No. 25 size Activo. Not free with any other size. No exceptions. With the No. 50 size, they cost \$1.00 extra. With all other sizes the price is \$5.00. If you only want the plans to build Composter Cabinet, the charge will be \$5.00. These plans will be mailed to you direct from the manufacturers upon receipt of your order.

PRICES

No. 2 size up to 450 lbs. waste	\$1.00, postpaid
No. 7 size for 1700 lbs. waste	2.00, postpaid
No. 25 size for 3½ tons waste	6.99, postpaid
No. 50 size for 6½ tons waste	11.95 charges collect



Test Your Soil

ONLY
\$2⁵⁰

For this
famous



Sudbury Soil Test Kit

It's first aid to amateurs for finer lawns, flowers, vegetables—the fancier's guide to prize-winning blooms. Shows how to give your soil the right kinds and amounts of fertilizers for all your flowers, vegetables, etc. (125 listed). Also whether lime is needed and how much. Easy to use, intensely interesting, no knowledge of chemistry needed. Ten-minute test tells more than a lifetime of gardening.

SPECIAL—complete equipment, instructions and solutions for 20 tests, for nitrogen, phosphorus, potash, acidity.

2 minute Acidity Kit Model	\$ 1.00
Home Garden Model (illustrated) ..	2.50
Jr. Professional Model	4.75
Horticultural Model B	12.50
DeLuxe Professional Model A	24.95

GIVE CROPS A HEAD START WITH
SELF FEEDING VITA-BANDS



VITA-BAND 40: Growers are reporting outstanding results in vigorous well-balanced growth. Exclusive nutrient treatment affords a liberal supply of balanced plant food. Transplanting shock eliminated, saving 1 to 3 weeks set-back. Sturdy fibre resin construction maintains best moisture conditions with watering frequency cut 50%. Save space and growing time. Quick set-up and rapid removal.

VITA-BAND 10: Designed for growing periods of 8 to 10 weeks. A low-cost nutrient treated band especially good for annuals and vegetables. Produces growing results similar to Vita-Band 40.



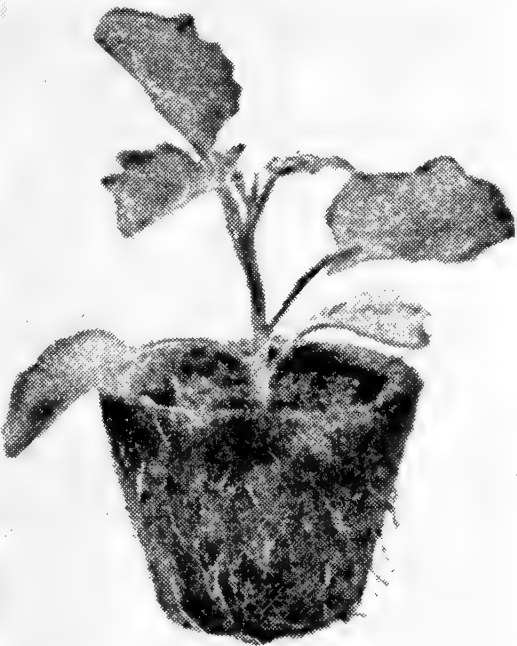
VITA-BANDS		PRICE PER 1000—SIZES IN INCHES							
Sold in units of 1000 only		1 1/2 x 1 1/2 x 2 1/2	1 3/4 x 1 3/4 x 2 1/2	2 x 2 x 2 1/2	2 x 2 x 3	2 1/2 x 2 1/2 x 3	3 x 3 x 3	4 x 4 x 3	4 x 4 x 4
VITA-BAND 40	—	—	\$5.95	\$6.60	\$7.35	\$8.85	\$10.30	—	—
VITA-BAND 10	3.60	3.90	4.40	4.90	5.85	6.75	8.85	11.10	—

FERTO-POTS

For earlier, better crops and bigger profits.

FERTO-POTS produce earlier crops and more abundant yields, and are extensively used by the most successful gardeners.

FERTO-POTS are constructed of manure and fertilizer in the correct proportions for best plant growth and for holding the moisture at roots of the plants. The plants are not removed from the pots when they are set out. Simply set pot and all in the ground and the roots will grow right through the pot which slowly breaks down, furnishing valuable plant food. Roots are not disturbed and plants not checked. Carton of 100 No. 3 (3 inch), \$3.00, not prepaid. Carton of 250 No. 3 (3 inch), \$5.50, not prepaid.



BIRD RED & VITA POTS



RED: For shipping only. Not recommended for growing. Lightweight and sturdily made to protect rootball from breakage—inner wax coating prevents drying out. A “must” to preserve the top quality of your plants in transit. Delivering quality promotes repeat business.

VITA-POTS: For growing and shipping—they are nutrient treated. Growing results are similar to Vita-Bands. VITA-POTS prevent rootball disturbance. No handling and storage of heavy pots. VITA-POTS can be

packed quickly and easily for shipment.

PRICES PER THOUSAND—Sold in Units of 1000 only								
RED								
2"	2 1/4"	2 1/2"	3"	3 1/2"	4"	5"	6"	
\$8.60	\$8.60	\$8.70	\$9.15	\$12.20	\$14.70	\$18.15	\$22.25	
VITA-POTS								
2"	2 1/4"	2 1/2"	3"	3 1/2"	4"	5"	6"	
14.00	14.30	14.85	16.40	21.60	24.35	31.85	41.70	

CYCLONE SEED SOWER

Broadcasts Evenly—Saves Seed—Saves Labor
Uneven seeding is wasteful. The Cyclone will sow many acres per hour, any amount per acre. Does the work quickly and saves labor.
Many hundred thousand farmers in America, Canada, Europe and other countries have relied on it for sowing Clover, Timothy, Alfalfa, Lespedeza, Sudan Grass, Oats, Wheat, or any other seed that is sown broadcast.



Construction—Its well known double feed insures a uniform flow of seed. Sloped feed board keeps hopper properly filled. Feed adjustment is automatic and starts or stops flow of seed instantly. Distributing wheel scatters seed evenly—throws equal amounts to equal distances on each side of operator. Price: \$3.75, f. o. b. Grand Rapids.

THE SECTIONAL TUBE STYLE
“HORN” SEED SOWER
HAS PATENTED
BRASS SEED GAUGE

Adjustable to sow any amount per acre. Used for sowing Clover, Timothy, Lespedeza, Alfalfa and all other small smooth seeds. Is popular, low priced and has a large sale. Price: \$1.35, f. o. b. Grand Rapids.



Wood Veneer Plant Bands

Used by the largest growers of vegetable plants, perennial plants, Carnations, Snapdragons and Stocks, for transplanting to the greenhouse or out-of-doors. Packed 1000 to a carton.

Shipping Weight		Per 1000
1 1/4 x 1 3/4 x 2 1/2 in.	33 lbs.	\$6.00
2 x 2 x 2 in.	34 lbs.	5.70
2 x 2 x 2 1/2 in.	35 lbs.	5.80
2 1/4 x 2 1/4 x 2 1/2 in.	38 lbs.	6.00
2 1/2 x 2 1/2 x 2 1/2 in.	40 lbs.	6.10
2 x 2 x 3 in.	40 lbs.	6.10
2 1/2 x 2 1/2 x 3 in.	45 lbs.	6.20
3 x 3 x 3 in. **	55 lbs.	6.60
4 x 4 x 3 in.	60 lbs.	6.90
3 x 3 x 4 in.	60 lbs.	6.90
4 x 4 x 4 in.	65 lbs.	7.70

These bands are stapled, and are sold in units of 1000 only. The above prices are quoted f.o.b. Grand Rapids. The ** is the most popular size, which will be carried in stock. Other sizes can be obtained on order, but we would suggest that you order early as it will take about 2 weeks to get them in. All prices subject to change without notice, and for shipment direct from factory, we will quote you special prices f.o.b. factory.

WOOD LABELS

For Marking Plants		50	100	1000
Plain, Not Printed				
5/8 x 4 in.		\$0.25	\$0.45	\$3.25
5/8 x 5 in.		.30	.50	3.50
5/8 x 6 in.		.35	.55	4.25
5/8 x 3 1/2 in. wired		.35	.60	4.50

Above prices are subject to change without notice and are quoted f. o. b. Grand Rapids. Postage will be extra.

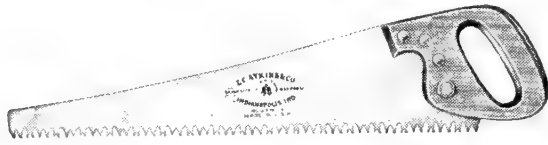
Atkins Silver Steel Saws

For orchard pruning. The following numbers are the ones the fruit men like, and we will keep them in stock. Prices will be quoted upon application.



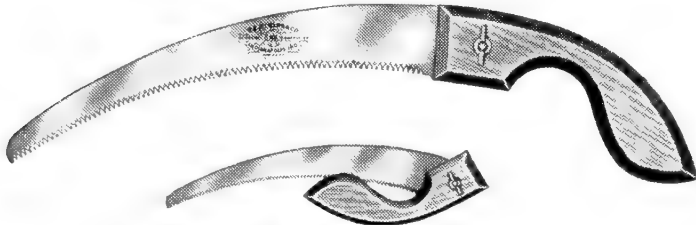
No. 20 Curved Pruner

Has a narrow blade with rip teeth. Blade tapers from $\frac{1}{4}$ inch wide at the point to $1\frac{1}{2}$ inches wide at butt. Handle air dried beech handsomely lacquered. Length 14 inches.



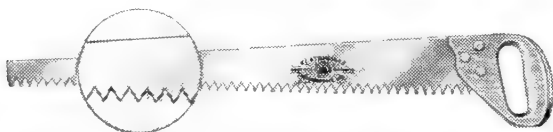
No. 40 Tuttle Tooth Pruner

Tuttle tooth pattern. Has extra sharp teeth that hold their edge longer due to their extra fine temper. Handle of kiln dried beech, special pattern. Extra large and roomy grip. Length 20-24 inches.



No. 18 Folding Pruner

This saw has the folding handle, enabling the user to cover the tooth edge of the saw for carrying it in the pocket. Blade has peg tooth. Length 12 inches.



No. 17 Forester Pruner

Blade is $1\frac{1}{2}$ inches wide at the point, $3\frac{1}{2}$ inches wide at butt. Blade is very stiff and will not bind. Extra large peg teeth filed and set. Length 26 inches.



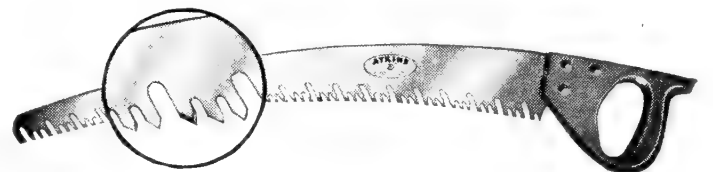
No. 16 "AAA" Pole Tree Pruner

Blade is fitted with peg teeth and fastened to casting with $\frac{5}{16}$ in. bolt and wing nut. The blade is adjustable to cut at any angle. Casting is hollowed and bored for slipping on to a pole of any desired length so that it may be operated to reach high limbs from the ground, avoiding the use of ladders. A hook on this casting for dislodging cut limbs. Pole not furnished. Length 16 inches.



No. 3 Duplex Pruner

Specially hardened and tempered blade noted for edge holding qualities. Toothed on one edge with lightning tooth for extra heavy coarse work with fine tooth on opposite edge for finer cutting. The handle is of thoroughly seasoned apple wood, finely finished. Length 18 inches.

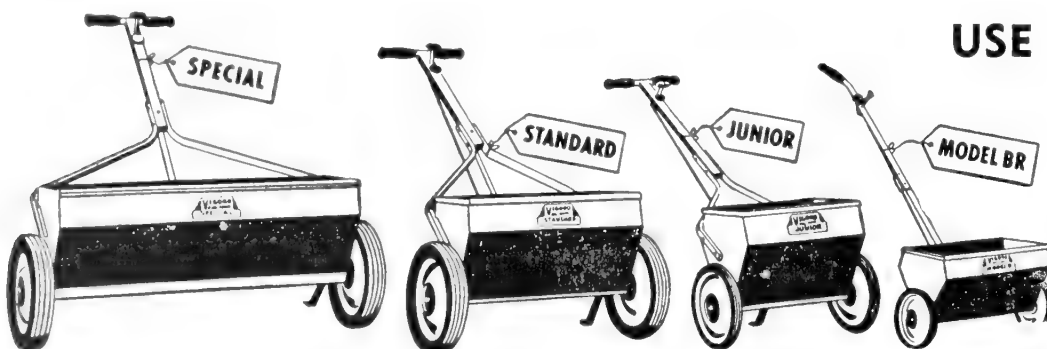


No. 3-14 Strong Pull Cut Pruning Saws

Strong pull cut pruning saws, properly ground and toothed with the right pitch on curved blade. Highly polished and etched. Closed pattern handle. Preferred by utilities and tree surgeons. Seasoned beech, lacquered handle. Length 26 inches.

No. 22 Curved Pruner

Blade is made of genuine Silver steel with teeth on concave edge. Blade has a smooth back. Rip style teeth, 6 points per inch. Properly filed and set. Extra large roomy grip handle. Length 22 inches.



SPECIAL
Width, 36 in. Capacity 100 lbs.

STANDARD
Width, 24 inches. Capacity 65 lbs.

JUNIOR
Deluxe model. Rubber-tired. Width 16 in. Capacity 35 lbs.

MODEL BR
Width, 16 inches. Capacity 15 lbs.

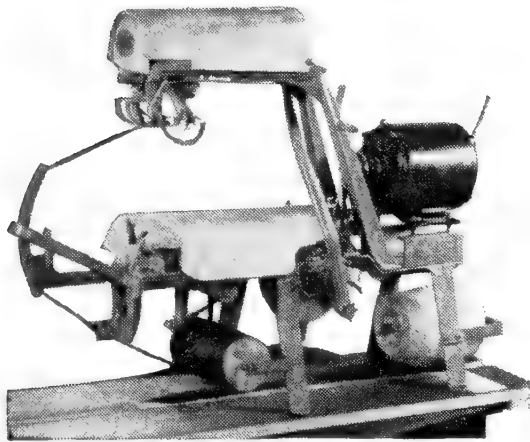
USE A VIGORO SPREADER!

Once you use a Vigoro Spreader you'll say it's just as important as your lawn mower. . . . Applies Vigoro at proper rate of application quickly and easily. Sows grass seed to perfection at a big saving in seed. All models sturdily constructed of metal to last many years.

ASK FOR PRICES

Do a better job of applying Vigoro, lawn seed, etc. Saves time, money and labor.

Electric Tying Machine

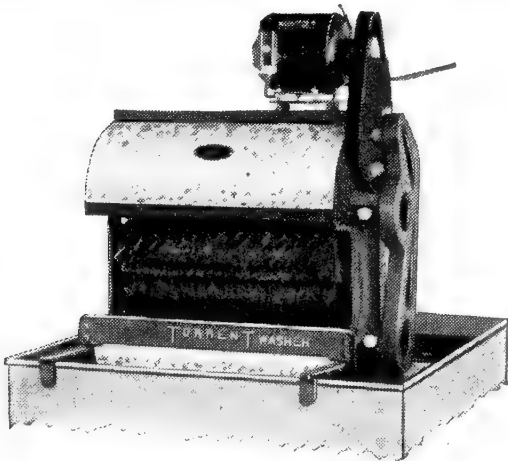


The Felins Electric Tying machine is a great time saver. Will handle 6- to 16-ply cotton twine as well as No. 13 and No. 17 braid. Is equipped with a 1/4 h.p. electric motor, 110 volts. Top speed 45 bunches per minute.

FELINS FOOT POWER MACHINE

Like the electric tyer this machine is well constructed, dual roller bearings being used where needed. Ties 6- to 16-ply cotton twine and No 13 braid. Illustrated circular and prices on request.

Felins Torrent Bunch Washer

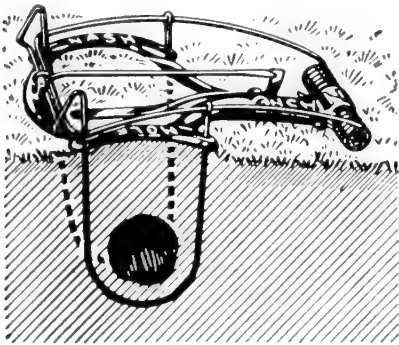


Felins Root Crop Washer
Prices quoted on request.

Nash Choker Loop Mole Trap

The Only Trap That Always Catches The Mole
In All Kinds of Ground

Both the choker wires are made of a single piece of metal, bent to the desired form, so that they are held perfectly in place, not depending on numerous joints. The springs which operate the trap are of one piece of best Gamma spring steel, while the trap as a whole is strong enough so that no clods, stones, sticks or anything of that kind prevents its perfect operation. Price: \$2.50 each.

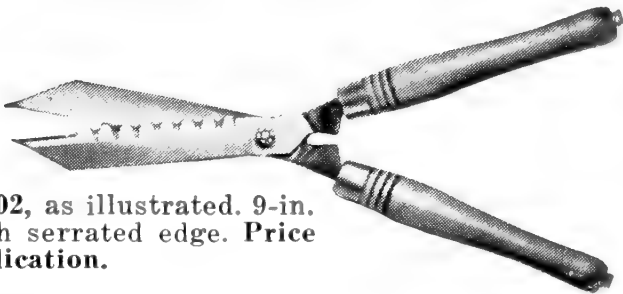


Hedge Trimmer



A Real Tool for a Real Job!
Built to give enduring service. Has 1/4 H.P. universal motor with die-cast aluminum housing and handy thumb-operated toggle switch. Special alloy gears. Cutter blade 12 inches long, is made of finest crucible steel. Price includes 6 feet of best rubber covered cord. Price upon application.

Hedge Trimmer



No. A-102, as illustrated. 9-in. blade with serrated edge. Price upon application.



No. HSGF-\"D\" Handle
Garden Shovel

A special favorite of women and home gardeners, because it is designed for light spading, edging and cultivating around flower beds. Small in size, measuring 7 inches by 10 1/2 inches; light in weight, around 4 lbs. Blade is forged steel, heat treated. 27 inches. \"D\" white ash handle. Price \$2.95 plus the postage.



CORN HOOKS

Brooks pattern, as illustrated, with serrated edge, adjustable to several positions.

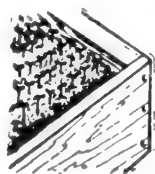
- No. 119. 8-inch \"Snap Cut\" Hand Pruning Shear.
- No. 19. 8-inch \"Snap Cut\" Hand Pruning Shear.
- No. 5408. 24-inch Hand pruning Shear.
- Also a 12-foot Sectional Pruning Shear.

f.o.b.
Grand
Rapids

Ask
for
Prices

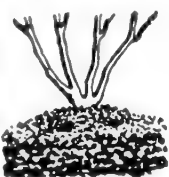
**Now! One Material Does
All These Gardening Jobs**

Terra-Lite* Vermiculite



Starting Seeds

Terra-Lite provides perfect control of air and water for speedy, heavy root growth. Maximum seed germination. Seeds easily plucked out for transplanting.



An Ideal Mulch

Stops winter soil heaving by curbing drastic changes in soil temperatures. Prevents drying out in summer. Less watering.



Lightening Soil

Heavy, clay soil can be aerated with *Terra-Lite* as in no other way. Lets roots spread out, provides perfect air-moisture control for best growth. *Terra-Lite* gives body to sandy soils, helps them retain moisture.



Transplanting

When you plant shrubs, bushes, trees, bulbs or seedlings in your garden, a little *Terra-Lite* in the soil mixture assures the required air and moisture for roots . . . *bigger, better plants result!*



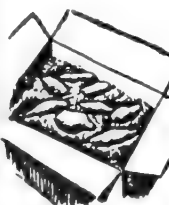
Rooting Cuttings

If you root your own cuttings you'll be amazed how quickly roots develop in *Terra-Lite*. Masses of hair roots spring forth, making strong healthy cuttings that take hold quickly when transplanted.



New Lawns

Greener, healthier *Terra-Lite* lawns make friends, for *Terra-Lite's* ability to store and control air and moisture means no scorching, less watering.



Storing Bulbs

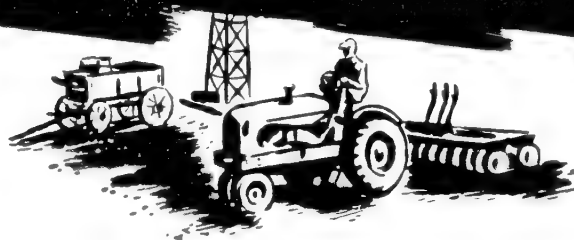
Bulbs stored in *Terra-Lite* will not rot. Insulates against abnormal changes in temperature—keeps bulbs firm and plump.

Yes, you'll find many ways to use *Terra-Lite* in your gardening chores, "all thru the year." You see, *Terra-Lite* vermiculite is a form of expanded mica that has unusual ability to hold many times its weight in water—yet, *Terra-Lite* never shuts out air that plants so need. The power to hold and release air and water as needed for healthy growth is what makes it such a help in your gardening.

Buy the large bag of *Terra-Lite*—you'll find it a valuable aid throughout the year.

Terra-Lite*
BRAND
VERMICULITE
PLANT AID

Stretch THE LIFE OF FARM EQUIPMENT with RUST-OLEUM



Positive Anti-Rust Protection . . .

You'll get years more of service out of machinery and implements by protecting them with RUST-OLEUM. Rust stops—protection starts the minute RUST-OLEUM covers metal. It's a tough, pliable enduring film that defies the conditions that cause rust—rain, dampness, exposure to weather, etc. RUST-OLEUM penetrates to the clean, uncorroded metal . . . and incorporates existing rust right into the coating itself. Try RUST-OLEUM today! Touch up existing rusted spots, or, preferably, give your machinery and implements an over-all coating



Easy to Use . . . and Economical, Too!

- No time lost in preparation. Simply wire brush surface to remove scale, paint blisters, dirt, etc.
- It's not necessary to remove every appearance of rust.
- RUST-OLEUM is a water and air-tight rust preventive that does not blister, crack or peel.
- Excellent coverage . . . less than 1-cent per square foot.
- It's useful, also for protecting other metal surfaces around the farm including: metal roofs, gutters, pumps, barn equipment, stanchions, etc.

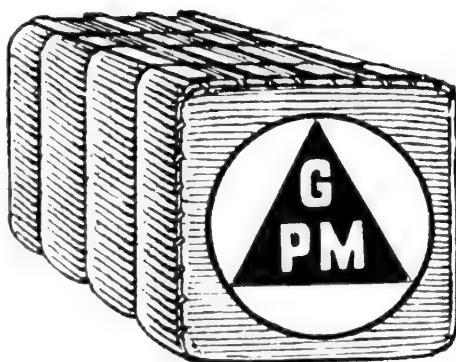
APPLY BY BRUSH, DIP OR SPRAY

Ask for a descriptive circular that gives full information

C-A Wood Preserver

(Carbolineum America.) It is the ideal product to use on posts, poles, ties, sills, joists, floors, silos, hog houses, barns and other wood that is exposed to decay. It will kill chicken mites and fowl ticks. One application should last from one to three years. Mailing weight 13 lbs. Price upon application.

GPM PEAT MOSS FOR YOUR SOIL



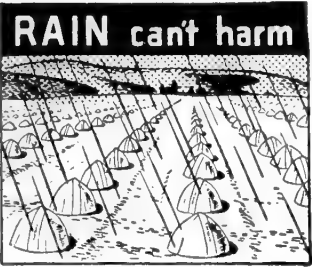
GPM Peat Moss is a well known reliable brand with proven value and guaranteed content. All waste foreign matter has been removed.

All plants—grass, trees, flowers and vegetables can only eat food in a thin solution. In other words they must drink it. To make your soil the proper texture to hold food in this thin solution, you should mix liberal quantities of GPM Peat Moss into the soil. Water then dissolves plant food and the sponge-like texture of GPM Peat Moss holds the solution in readiness for plant use. It will make your plants grow better; produce better flowers; have better color and grow larger.

It comes in bales, but also in smaller bags for every use.

Germāco
Hotkaps

or Plant Protectors



25 garden size package, complete	\$.95
100 package, complete	3.15
250 package, complete	5.90
1000 carton—per 1000	18.35
5000 lots—per 1000	18.20
10,000 lots—per 1000	18.05
25,000 lots—per 1000	17.90
Steel setters, each	1.95
Fiberboard setters, each	.20

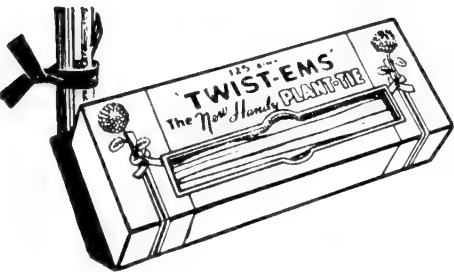
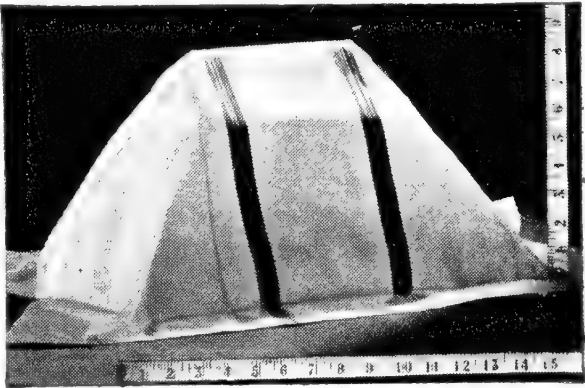
Shipped Prepaid in Michigan.
We do not split packages of Hotkaps.

Hot Tents

Hot Tents are a product of "Germaco Hotkaps" to give the user a larger area to cover individual plants. Size 14 by 11 inches at the base, 8½ inches high. Weight 70 lbs. per thousand. Per thousand Hot Tents, packed 500 to a carton\$26.50
Hot Tent Setter (steel) 2.60

Super Hot Tents

Size 18 by 14 inches at the base, 12 inches high. Weight 120 lbs. per thousand. Per 1000 Super Hot Tents\$39.00
Super Hot Tent Steel Setter 3.60
Shipped Prepaid in Michigan.



'TWIST-EMS'

Home garden package for tying up anything you grow.
New package of 50 Twist-ems, 8-inch\$0.15
Package of 100 Twist-ems, 8-inch25
As illustrated at left.

For commercial growers, used in tying Carrots, Beets, Onions, Celery and other produce, for market. "A twist of the bunch does the trick."

	Bundle of 250	Per M	2½ M	5 M	10 M	25 M
7-inch	\$.40	\$1.50	\$1.45	\$1.39	\$1.33	\$1.27 per 1000
8-inch	.50	1.71	1.65	1.59	1.52	1.46 per 1000
12-inch	.75	2.56	2.48	2.38	2.29	2.19 per 1000
16-inch	1.00	3.42	3.30	3.17	3.05	2.92 per 1000

The Postage Will Be Extra.

250 continuous feet on plastic reel \$1.00, postpaid.



FLYING DISK

SCARE Birds and Animals Away

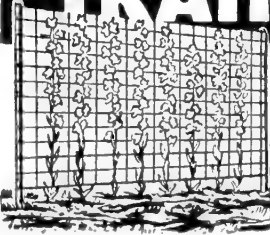
Amazing protection for newly planted seeds, berries, tender seedlings, fruit trees, etc. Made of shining aluminum, FLYING DISKS spin and whirl madly in all directions—give blinding reflections and weird jingling, crackling sounds—to scare birds and animals away. Easily strung across area to be protected—or from branches of fruit trees and vines.



10 FLYING DISKS with complete instructions, only 25¢



TRAIN-ETTS



Ideal support for SWEET PEAS, GARDEN PEAS, POLE BEANS, CUCUMBERS, TOMATOES. Hung in 5 minutes. Doesn't rot like string, nor burn tendrils like wire.

No. 2 size, 60x96 inches. 85c postpaid.

FUMIGATORS



NICOFUME PRESSURE FUMIGATORS

For Greenhouses

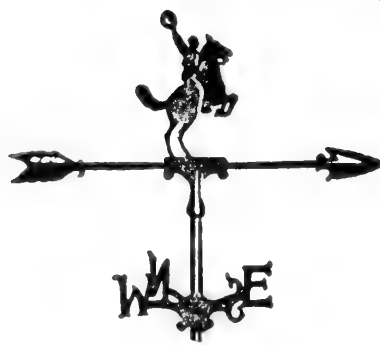
1-lb. size, single cans 80c; 6 cans \$4.15; 1 doz. cans, \$7.95. Mailing weight per doz. 17 lbs. 1/2-lb. size, single cans 50c; 6 cans \$2.40; 12 cans \$4.60. Mailing weight per doz. 10 lbs. Nicofume holders, each \$1.75.



BENZOFUME PRESSURE FUMIGATORS

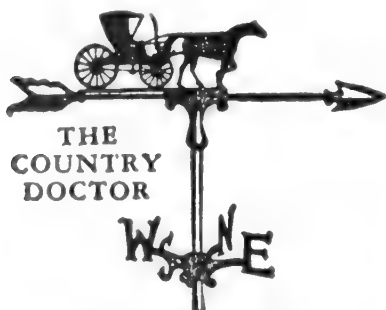
An efficient and economical method of controlling greenhouse RED SPIDERS in Rose ranges, also in Carnations, Chrysanthemums and many other crops. 1-lb. size, single cans 50c; 6 cans \$2.90; 12 cans \$5.50. Mailing weight per doz. 17 lbs. 1/2-lb. size, single cans 30c; 6 cans \$1.75; 12 cans \$3.20. Mailing weight per doz. 10 lbs.

THESE CAN BE MAILED—POSTAGE WILL BE EXTRA



CABALLERO

Vanes illustrated are all-metal and finished in weather-proof black to silhouette against the sky. Size: 40 in. high, 30 in. wide. Includes direction letters and Universal Base — \$24.50. Other clever new designs available in a smaller size—\$13.50.



THE
COUNTRY
DOCTOR

Our WHITEHALL selection includes unusual designs for every home, lodge or summer cottage. Signs that attach to tree, post or side of house—lawn signs—and wall type markers for any flat surface.

Signs are cast aluminum with leadcoated nameplate and hand-wrought iron bar. Swedish iron finish highlights artistic ornaments. Lettering 20c extra per character or numeral.

You'll also find many attractive new WHITEHALL house signs in our display—including both large and small sizes. Prices from \$6.50.



* Plus slight charge for lettering



"Spinning Wheel" \$10.75



"Cardinal" \$10.75
(In color \$11.75)

YOUR NAME IN A JIFFY
WITH REFLECTING LETTERS

Characters are 150 times brighter than paint — and reflect at night when light shines on them.

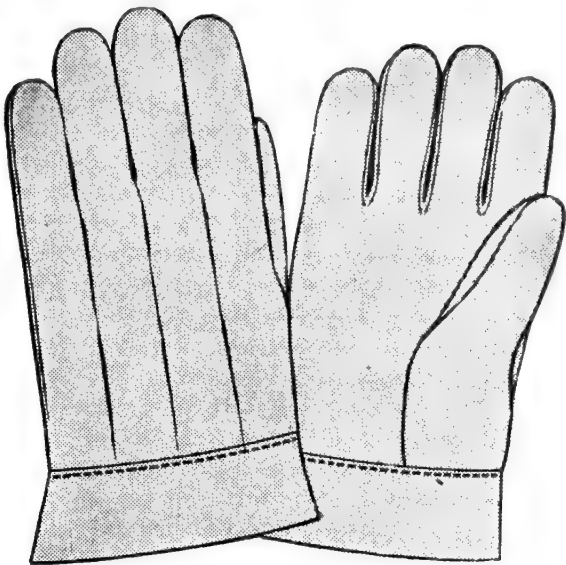
POSTAGE WILL BE EXTRA—SUBJECT TO THE 3% MICHIGAN STATE SALES TAX

Wolverine Gloves

Yoo - Hoo!
Ladies

They're LANOLIZED*

So Soft... So Smooth
On
Your Hands



No. 937 "All-Purpose"

glove for ladies. Light weight, green suede pigskin, slip-on style, inseam, unlined. Comes in sizes 7 and 8. Mailing weight 5 ozs.

No. 659 Men's Genuine Horsehide

Slip-on pattern, Keystone thumb, inseam, unlined. Mailing weight 8 ozs. Sizes 8, 9, 10, 11 and 12.



Wolverine PIGSKIN Gloves

YES, LADIES—we surely had you in mind when we ordered a supply of "Lanolized" Wolverine Pigskin Gloves, for your round the house and garden work. *So soft, so smooth, because Lanolin has now been added to the Wolverine Secret Tanning process. What a thrill you'll get when you try on a pair, and so little in cost. You'll thank us for urging you to see them.

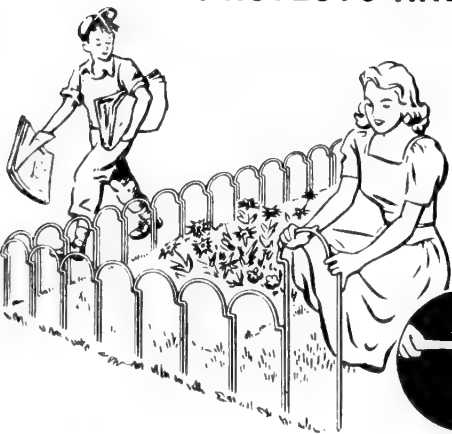
Many other numbers of Wolverine gloves are carried in stock and we will solicit your inquiries for any others that you may desire.



stikit wicket

the modern fencing

PROTECTS AND BEAUTIFIES



21" High, 12" Wide,
1/4" steel enameled green

\$2.40
THE DOZ.

Mailing weight 19 lbs.
In cartons of two dozen
(makes 24 feet of fence)



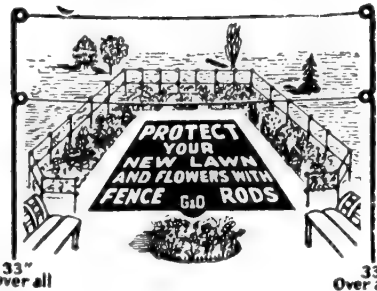
Easy to hammer
into hard ground

Wickets

Neat, orderly protection around lawns, shrubs, planting beds, etc. Keeps human and animal traffic away. Sturdy 1/4 in. dia. steel, green enameled. Twelve of these Wickets, overlapped about 2 in. make a neat, practical, "Keep Off Please" fence of about 12 feet long. \$1.95 per doz.



Fence Rods

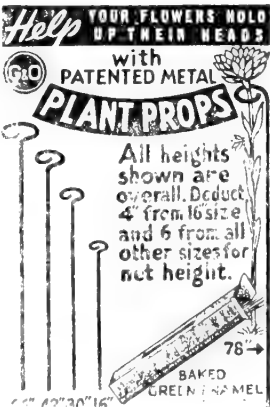


These Fence Rods are made of sturdy 1/4 in. dia. steel with two loops which will support wire, heavy clothes line and even rope. Eliminates the use of irregular slats, broom handles, sticks, rags, etc. Sold at a price everyone can afford. 48 inch. \$2.20 per doz.

Plant Props

No more untidy wood stakes with rag and string ties. Plant Props are neater, termite proof, easier to use (flowers hook right in). Lasts for years. Made of heavy enameled steel. Used from Alaska to South Africa. Nothing like 'em in the garden world.

16 inch	.....	\$0.60 per doz.
30 inch	.....	1.25 per doz.
42 inch	.....	1.50 per doz.
66 inch	.....	2.50 per doz.
78 inch	.....	3.70 per doz.



PLANTERS GUIDE

A vital question that is frequently asked. How large is an acre of land? Let's answer it right here.

5 yards by 968 yards.
4840 square yards.
60 feet by 726 feet.
110 feet by 396 feet.

300 feet by 145.2 feet.
43,560 square feet.
From the above figures, you can figure any size piece of land.

Variety	Seed for 50 Ft.	Seed for 1 Acre Lb.	Rows Apart Feet	Plants Apart in Rows Inches	Planting Depth Inches	Days to Yield
Asparagus	1/2 oz. 30 plants	....	2 1/2	20	6	2 yrs.
Beans, Bush	4 ozs.	60 to 75	2 to 2 1/2	3 to 4	1 1/2	50 to 70
Beans, Pole	4 ozs.	30 to 35	3 to 4	9 (or hills)	1 1/2	65 to 80
Lima Beans, Bush	4 ozs.	30 to 50	2 to 2 1/2	3 to 4	1 1/2	65 to 75
Lima Beans, Pole	4 ozs.	30 to 40	3 to 4	9 (or hills)	1 1/2	80 to 90
Beet	1/2 oz.	4 to 6	1 1/2 to 2	3 to 4	1 1/2	60 to 75
Swiss Chard	1/2 oz.	....	2	15	1 1/2	50 and on
Broccoli	1 pkt.	1/4	2	18	1/4	70 to 80
Brussels Sprouts	1 pkt.	1/4	2	18	1/4	70 and on
Cabbage, Early	1 pkt.	1/4	2	12	1/4	65 to 75
Cabbage, Late	1 pkt.	1/4	2	18	1/4	80 to 100
Chinese Cabbage	1 pkt.	2	2	12	1/4	75 to 85
Carrot	1 pkt.	2 to 3	1 1/2	3	1/4	60 to 75
Cauliflower	1 pkt.	1/4	2	18	1/4	55 to 65
Celeriac	1 pkt.	1/4	2	4	1/8	90 to 120
Celery	1 pkt.	1/4	2 to 3	5	1/8	120 to 150
Collards	1 pkt.	....	2 1/2	24	1/4	90 and on
Sweet Corn, Early	1 oz.	8 to 10	2 1/2	9	1	70 to 80
Corn, Main Crop	1 oz.	8 to 10	3	12	1	80 to 95
Cucumber	1 pkt.	2	4	24	3/4	60 to 70
Eggplant	1 pkt.	1/4	3	30	1/2	70 to 85
Endive	1 pkt.	4 to 5	1 1/2	9	1/4	70 to 80
Kale	1 pkt.	4 to 5	2 1/2	24	1/4	70 to 80
Kohl-rabi	1 pkt.	4 to 5	2	8	1/4	55 to 65
Leek	1 pkt.	3 to 4	1 1/2	6	..	120 to 150
Lettuce, Leaf	1 pkt.	3	2	12	1/4	45 to 50
Lettuce, Head	1 pkt.	3	2	12	1/4	50 to 70
Muskmelon	1 pkt.	3 to 4	5	48	1	80 to 100
Mustard	1 pkt.	4	2	9	1/4	60 to 75
Okra	1/2 oz.	8	3	15	1	50 to 60
Onion, Seed	1 pkt.	3 to 4	1 1/2	3 to 4	1/2	90 to 100
Parsley	1 pkt.	4	1 1/2	4	1/4	85 to 100
Parsnip	1 pkt.	4	1 1/2	4	1/2	80 to 100
Peas	1/2 lb.	90 to 180	2 to 3	1 to 2	1	60 to 80
Pepper	1 pkt.	1/4	2 1/2	24	..	65 to 80
Pumpkin	....	3 to 4	8	60	1	110 to 130
Radish	1 pkt.	10 to 12	1	1 to 2	1/2	25 and on
Rhubarb	10 plants	2 to 3 for plants	4	48	1/4	2 to 3 yrs.
Salsify	1 pkt.	....	1 1/2	2	1/4	140 to 180
Spinach	1 pkt.	15 to 25	1 1/2	6	3/4	40 to 50
Spinach, N. Z.	1 pkt.	....	3	20	1	70 to 80
Squash, Bush	1 pkt.	6	4	36	1	55 to 65
Squash, Vining	1 pkt.	4	6	60	1	65 to 120
Tomato	1 pkt.	1/4	3 to 4	36	1/2	75 to 90
Turnip	1 pkt.	2 to 3	1 1/2	4 to 6	1/4	50 to 80
Rutabaga	1 pkt.	1 to 2	2	6	1/4	80 to 90
Watermelon	....	3 to 4	8	96	3/4	75 to 95

NUMBER OF PLANTS TO THE ACRE AT GIVEN DISTANCES

Distance apart	No. plants	Distance apart	No. plants	Distance apart	No. plants
12 x 1 in.	522,720	24 x 24 in.	10,890	36 x 36 in.	4,840
12 x 3 in.	174,240	30 x 1 in.	209,088	42 x 12 in.	12,446
12 x 12 in.	43,560	30 x 6 in.	34,848	42 x 24 in.	6,223
16 x 1 in.	392,040	30 x 12 in.	17,424	42 x 36 in.	4,148
18 x 1 in.	348,480	30 x 16 in.	13,068	48 x 12 in.	10,890
18 x 3 in.	116,160	30 x 20 in.	10,454	48 x 18 in.	7,790
18 x 12 in.	29,040	30 x 24 in.	8,712	48 x 24 in.	5,445
18 x 18 in.	19,360	30 x 30 in.	6,970	48 x 30 in.	4,356
20 x 1 in.	313,635	36 x 3 in.	58,080	48 x 36 in.	3,630
20 x 20 in.	15,681	36 x 12 in.	14,520	48 x 48 in.	2,723
24 x 1 in.	261,360	36 x 18 in.	9,680	60 x 36 in.	2,901
24 x 18 in.	15,520	36 x 24 in.	7,260	60 x 48 in.	2,178

Approximate number of feet of row per acre at given distances:

Distance between rows:	18 inches	24 inches	30 inches	36 inches	42 inches	48 inches
Feet of row:	29,010	21,758	17,427	14,526	12,439	10,853

PLEASE USE THIS ORDER SHEET

GRAND RAPIDS GROWERS, Inc.

Grand Rapids, Michigan

NAME _____ Date _____ 19 _____
Write very plainly

Post Office State

Street, P. O. Box
or Rural Delivery _____

Express or Freight Office (If Different from P. O.) Forward Goods by
(Parcel Post, Express, Freight or Boat)

CASH DISCOUNT

Money Order - - \$.....

Draft or Check - \$.....

Postage Stamps - \$ _____

Cash - - - - - \$

If your order of VEGETABLE AND FLOWER SEEDS, except PEAS, BEANS or CORN, amounts to \$5.00 or more, we will allow you a 10% cash discount. This discount does not apply on bulbs, special offer collections, plants or any other item listed in this catalog, as these are NET CASH as quoted.

Michigan State Sales Tax is charged on all orders for home gardens, or wherever applicable.

Discount does not apply on Canadian orders, and must be re-mitted in U. S. funds.

More Order Blanks will be sent upon request. Always write letters on a separate sheet from your order.
Make Money Orders or Checks payable to Grand Rapids Growers, Inc.

All of our seeds are tested, and we guarantee the vitality and purity to the full amount of the purchase price, but even with our quality seeds, success in gardening and farming depends largely upon cultivation, soil and weather conditions, therefore, in no case can we be held liable for more than the amount actually paid for the seeds.

[illegible]

IF MORE ORDER BLANKS ARE WANTED, WRITE US AND WE WILL SEND THEM. MAIL ORDERS ARE SOLICITED.

ORDER SHEET — Continued[illegible]

SPECIAL NOTICE: As a special favor, won't you tell your friends about your experience with our seeds? Give us their names and addresses so we may send them our seed annual.

[illegible]

Flowers for Lasting Beauty

Flowers of lasting beauty are the perennials. They bloom the second year, and every year thereafter with very little attention. We list only a few here, but you will find many more in the pages of this catalog. No garden is complete without a few of these choice flowers that come back year after year.

AQUILEGIA

(COLUMBINE)

MRS. SCOTT ELLIOTT'S STRAIN OF LONG-SPURRED HYBRIDS. This beautiful plant thrives in all kinds of soil; graceful foliage. Flowers abundantly from early May until the last of June. See page 46.

FOXGLOVE

(DIGITALIS) (B)

Bearing long spikes of beautifully colored flowers; fine for planting in hardy borders or among shrubbery. **Mixed.** See page 47.

GAILLARDIA

(P)

Bloom from June to October. Their long flowering period, long stems and bright colors make these one of the most valuable perennials, being easily grown in beds and borders. See page 47.

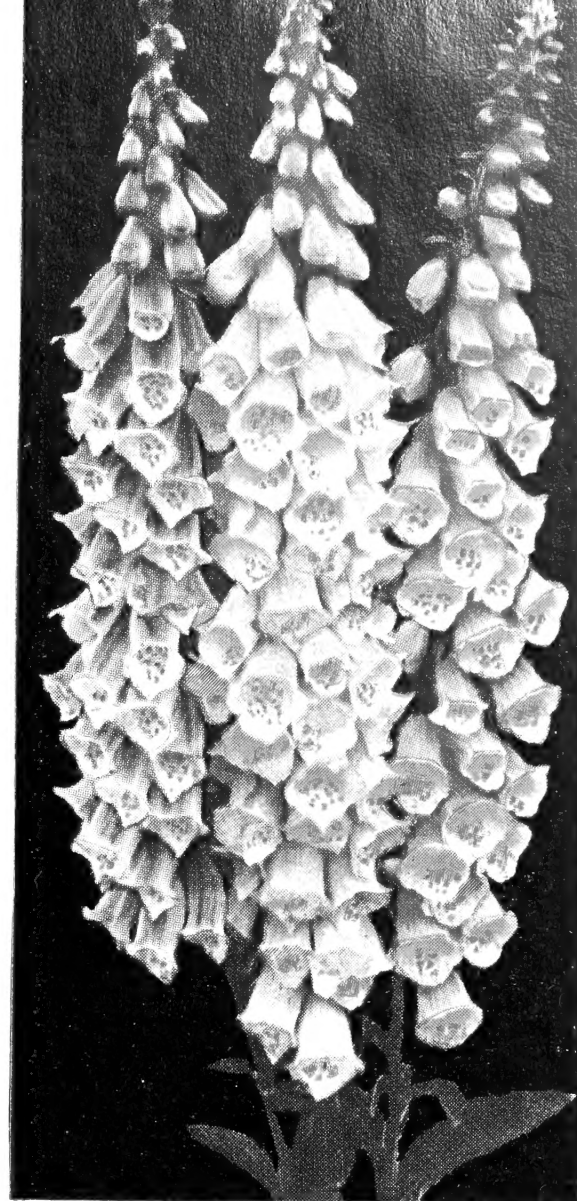
PYRETHRUM

(PAINTED DAISY) (P)

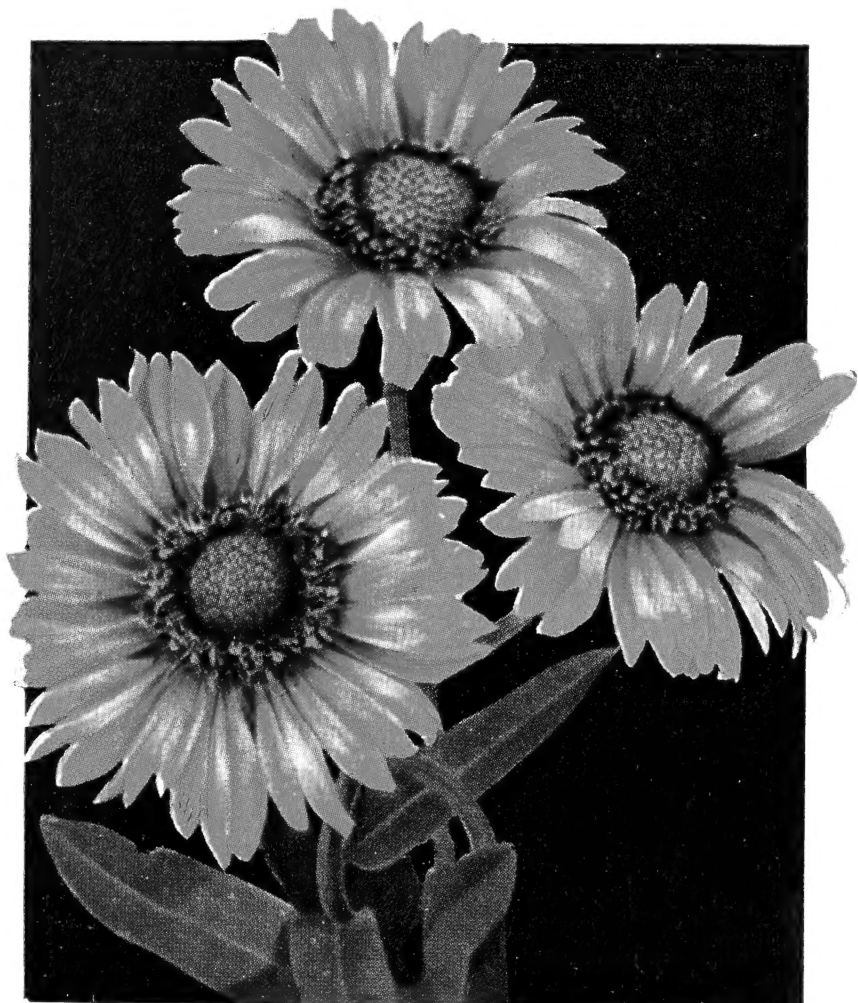
One of the most valuable of our early summer flowers. Charming colors and wonderful lasting properties as a cut flower. Flowers in May and June, and frequently in August and September; in all shades of rose and pink. Height 1 to 2 feet. See page 49.



Aquilegia—Columbine



Foxglove—Digitalis



Perennial Gaillardia



Pyrethrum—Painted Daisy



GRAND RIVER COLLECTION

of Choice Gladiolus

Ten of each of the following ten representative varieties of Gladiolus including several of the higher priced ones (100 large size bulbs in all) will be sent to you **postpaid for only**

\$4.00

- 10 **EARLY ROSE.** Deep rose.
- 10 **ETHEL CAVE COLE.** Delicate pink.
- 10 **GOLD DUST.** Deep yellow.
- 10 **PICARDY.** Delicate apricot-pink.
- 10 **PURPLE SUPREME.** Bright purple.

- 10 **QUEEN OF BREMEN.** Soft lavender-pink.
- 10 **ROCKET.** Flaming scarlet.
- 10 **SILENTIUM.** Pure white with rose blotch.
- 10 **SNOW PRINCESS.** A very fine white.
- 10 **WHITE GOLD.** Clear light cream.

The demand for these bulbs far exceeds our expectations every year, so we would suggest your early orders. Please allow us to substitute other varieties, if we are sold out when your order is received.

Subject to 3% Michigan State Sales Tax

GRAND RAPIDS GROWERS Inc. 401-433 Ionia Ave.
Grand Rapids, Mich.